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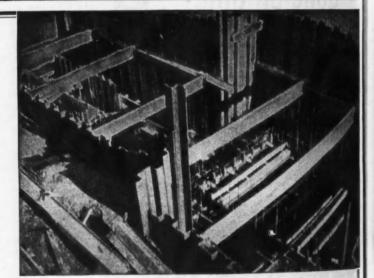
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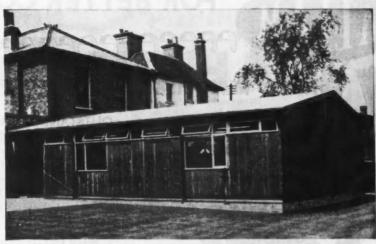
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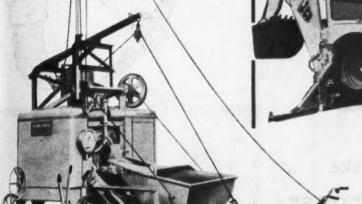
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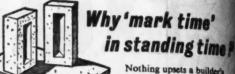


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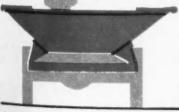
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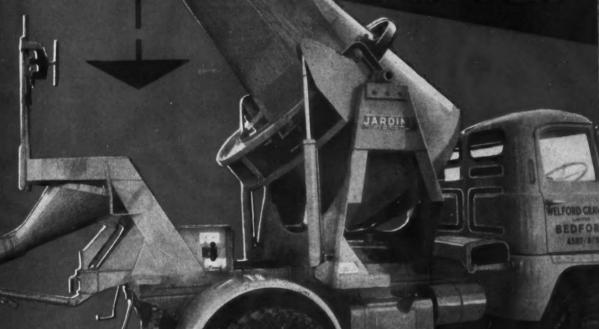
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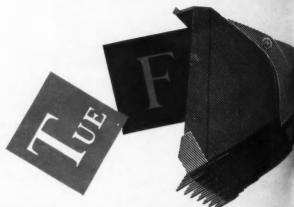
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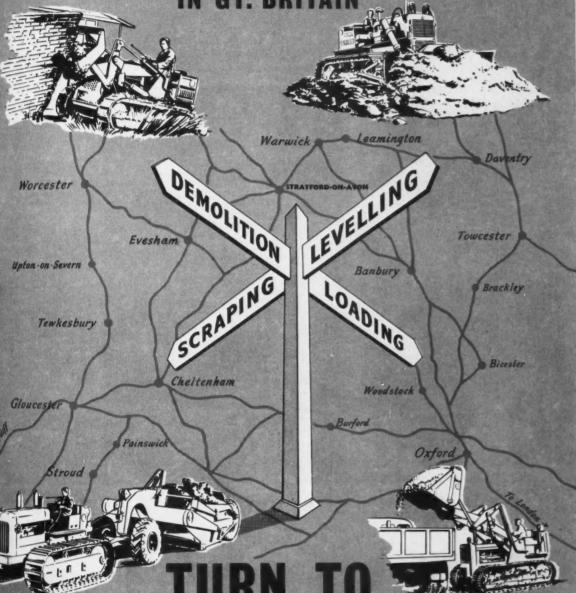


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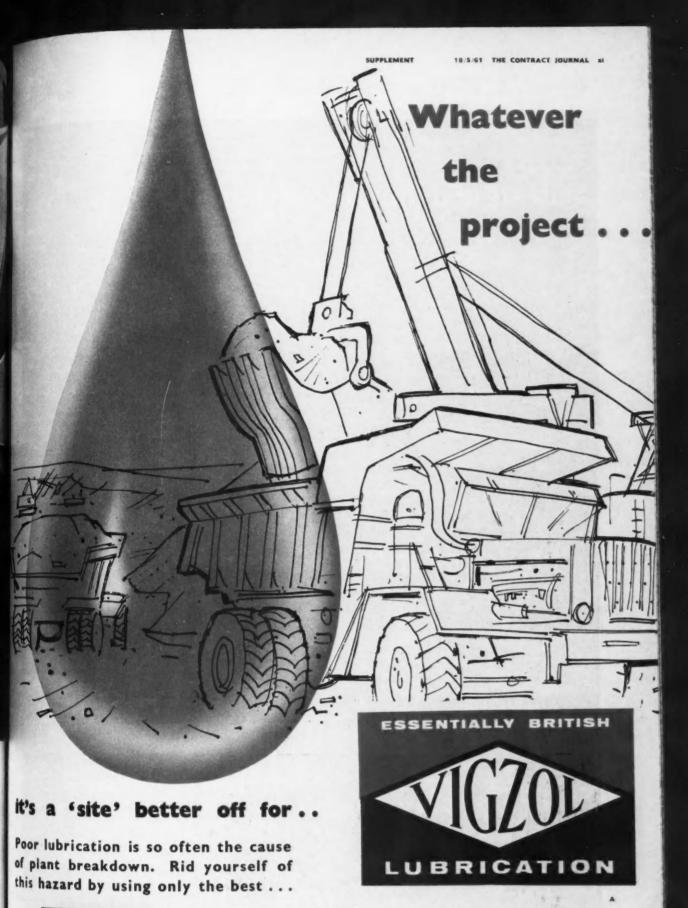
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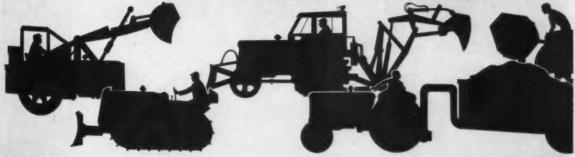


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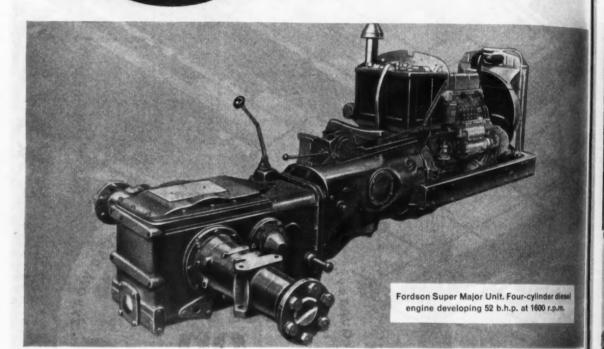
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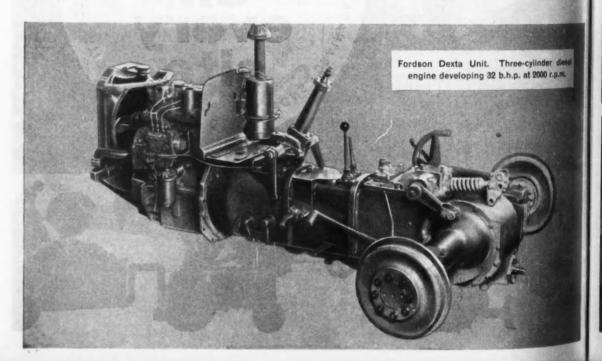
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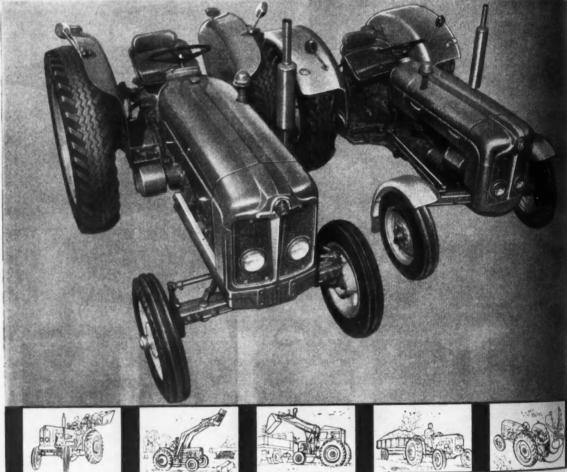
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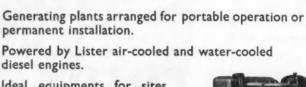
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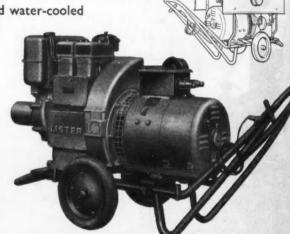
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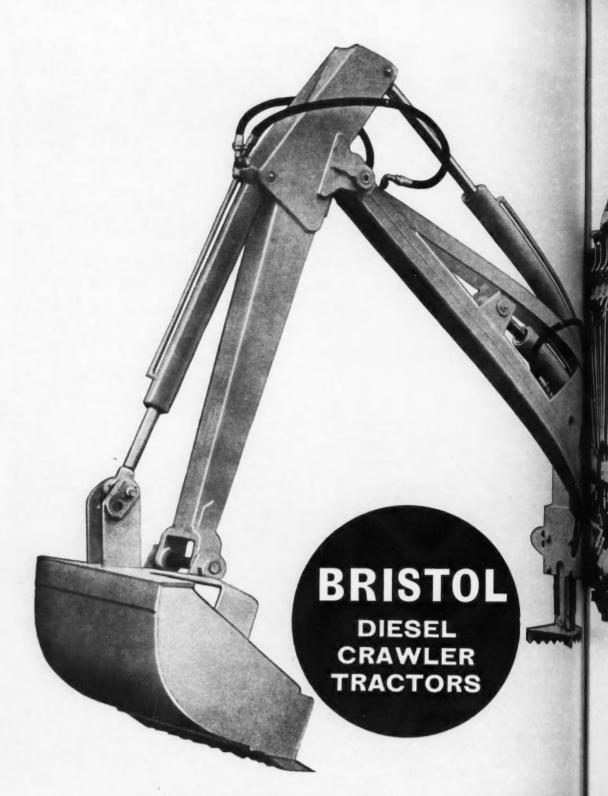
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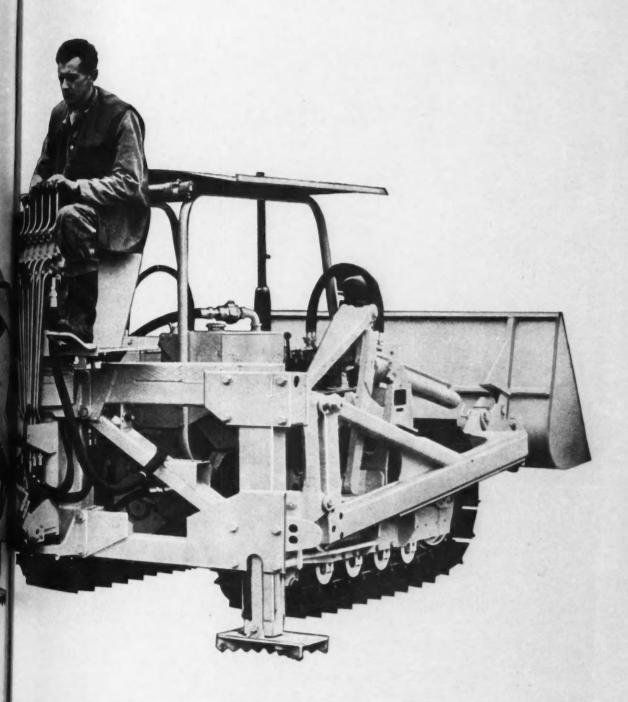
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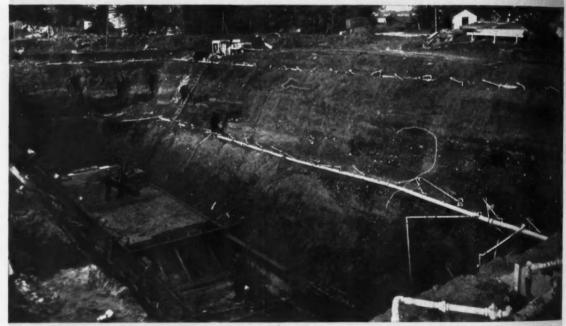
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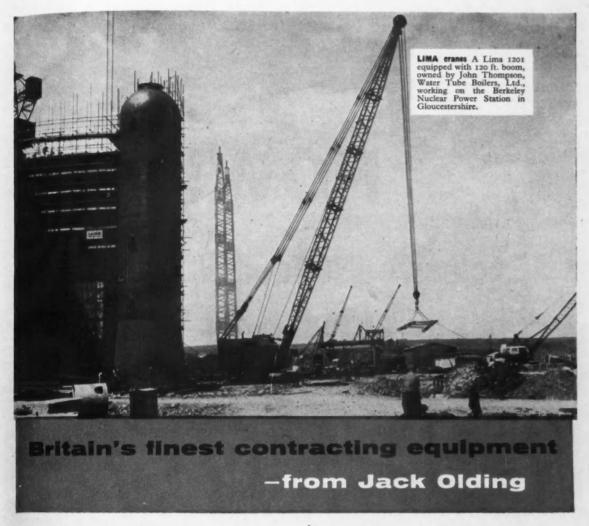
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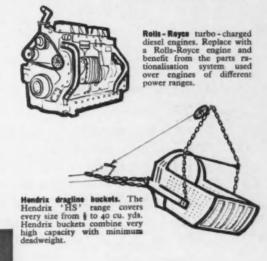
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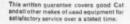
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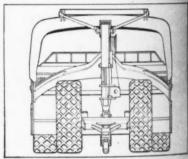
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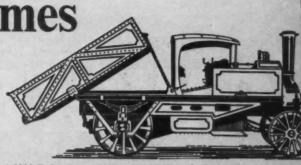
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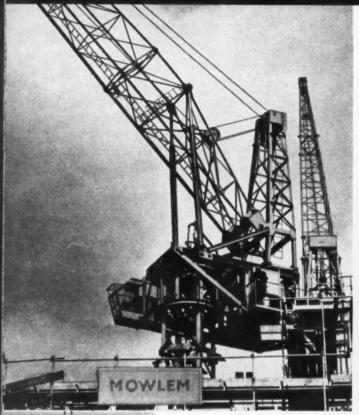


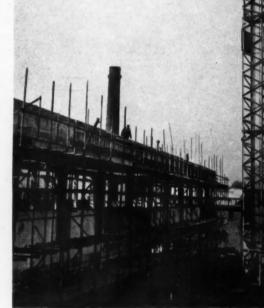
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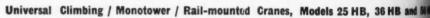


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20A/25	20-59	22-47	83-122	65/164	1-2	
25A/30	26-66	25-55	92-135	65/164	1.2	
35A/45	32-82	27-59	116-168	79/184	1-0	1
45A/55	36-99	30-73	139-204	79/184	10	100
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Model

25HB/S 36HB/S

27



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matic tyres or rails.

• four multi-speed step operations can be carried out simultaneously.

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11A/13	59: 0"	81	335	
Podel	Ra	mum dius Lifting capacity cwt.	Hoisting speed ft/min.	
64	16' 3"	214	131	
-	23' 0"	184	131	
11A/13	21' 3"	23	335	

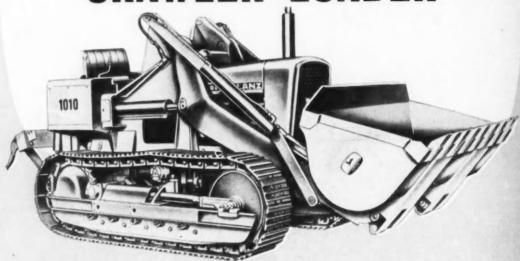




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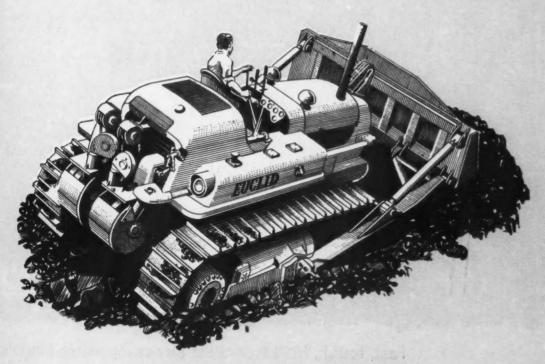
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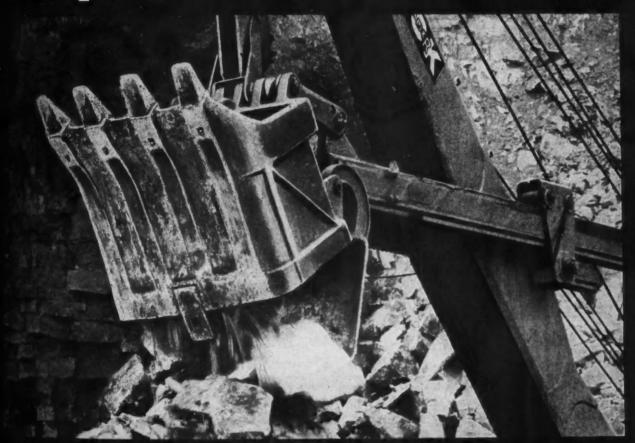
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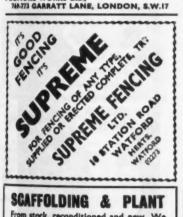
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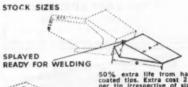
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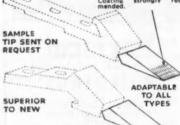
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	×	**	6/-	6/6	8/-	412"	1.17
2 3	×	**	7/-	7/6	9/6	514"	114"
	×	**	8/-	8/6	11/6	6"	113"
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5		Width A)	7/-	7/6	9/-	412"	112"
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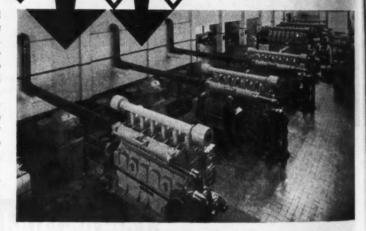
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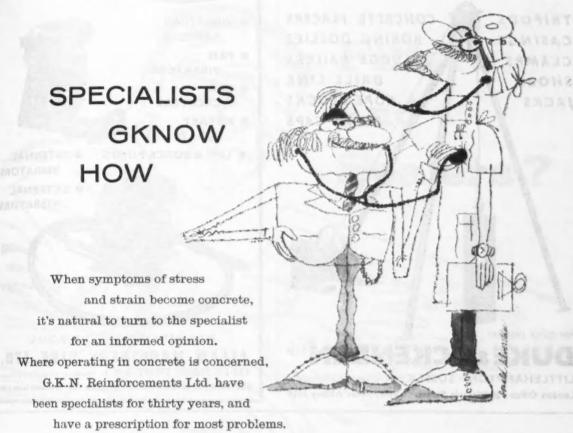
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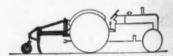


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Arrived on site, jibs erected, two beams lifted onto railway bogies and winched on to temporary Bailey Bridge. One crase travelled 4 miles to West side of bridge and took up position for first lift.

First beam positioned, second beam placed on Bailey Bridge ready for lifting, lifting frames fitted, second beam positioned. One crane travelled 4 miles to East side of bridge, removed and replaced 50' of rail track on Bailey Bridge approach.

Third and fourth beams placed on Bailey Bridge and subsequently positioned. Bailey Bridge re-positioned by cranes. One cran travelled to East side of bridge to help position two beams or bogies, travelled back to West side and assisted in positioning fifth beam.

Sixth beam positioned. One crane travelled to West side to help place seventh and eighth beams onto bogies, and subsequently to position them. Ninth beam placed on bogies.

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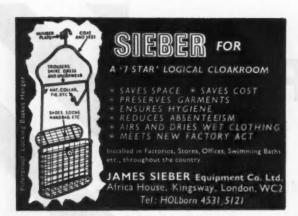




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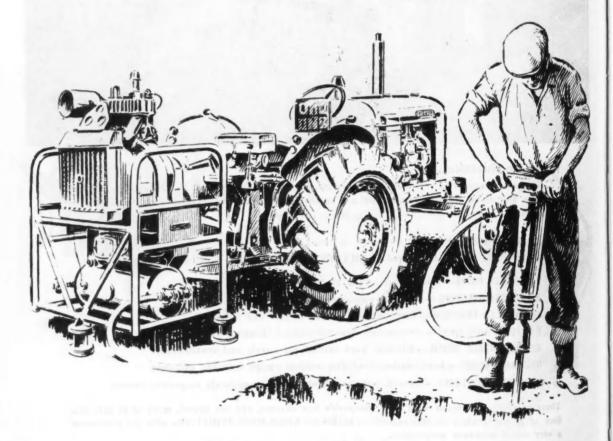
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The CORPORATION intend to CARRY OUT the ABOVE SCHEME in the near future, and intend to invite TENDERS for the Carrying out of the work. Contractors with experience of car park construction are now invited to submit their names for include and are now invited to submit their names for include Council. The closing date will be 30th MAY, 1961. The Scheme includes the Levelling of the Car Park Site, the Construction of a 9in. Hardcore Base, together with 3in. di Bituminous Surfacing. The area of the Car Park is approx. 1,900 sq. vd. di the Car Park is approx. 1,900 sq. vd. 1. CLOUCH.

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### BOROUGH OF GILLINGHAM.

TWYDALL/HAWTHORNE ESTATE. SECTION III, GROUP "D"-12 BUNGALOWS.

SECTION III, GROUP "D"—12 BUNGALOWS.

FIXED-PRICE TENDERS are invited for the ERECTION of 12 BUNGALOWS, comprising One Block of Four, One Block of Five, at PETHAM GREEN, and One Block of Three at BEGONIA AVENUE.

Gillingham, Kent of tendering may obtain copies of the state of tender of the state of tender, and form of fender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 23rd MAY, 1961.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.), made payable to Gillingham Corporation. The sum will be refunded on withdrawn.

Tenders, in sealed envelopes supplied and endorsed "Tender for 12 Bungalows," must be delivered to the undersigned by not later than Noon on MONDAY, 19th June, 1961.

R. P. CROMPTON.

R. P. CROMPTON.
Acting Town Clerk. Municipal Buildings, Gillingham, Kent. 1st May, 1961.

# WIRRAL URBAN DISTRICT COUNCIL.

CONTRACT NO. 295.

TENDERS are invited for the REPAINTING of TWO GROUP "A" and 137 GROUP "B" TYPE METAL STREET LAMP COLUMNS in VARIOUS ROADS in the Urban District.
Copies of the General Conditions of Contract, Specification and Form at Tender may be obtained from the Engineer and Surveyor, Council Offices, Tenders, in plain envelopes and varied to the Street Law.

Tenders, in plain envelopes endorsed "Repainting—Street Lamp Columns," to be delivered to the undersigned before 10 a.m. on SATURDAY, the 3rd June, The Council does not be the same to th

1961.
The Council does not bind itself to accept the lowest or any Tender received.
W. F. ROBERTS,
Clerk of the Council.

# NARBERTH RURAL DISTRICT COUNCIL. MYNACHLOGDDU WATER SUPPLY.

TENDERS are invited from contractors experienced this class of work. For the FOLLOWING:

(a) Construction of a Spring Impounding Chamber.

(b) Construction of Pumping Station.

(c) Construction of a Covered 40,000-gallon Reinforced Concrete Reservoir.

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1,002vd. of 2in. dia. A.C. and ST.
Together with incidental works.

Contractors must give details of similar work carried out by them when they submit their renore with an additional copy of the latter only. For the contractor's retention, may be obtained from the undersigned upon receipt of a deposit cheque for £3 3s. made rayable to the Rural District Council of Narberth, such deposit cheque will be returned upon receipt of a bona-fide Tender.

Drawings may be inspected, by spontament, either Drawings may be inspected, by spontament, either Drawings may be inspected, by spontament, either the Occeptor of the State of the Council Acceptor of the Engineer and Surveyor to the Council.

The Council does not bind itself to accept the lowest or any Tender, and will not defray any expenses incurred by those tendering.

Sealed Tenders are to be delivered to the undersigned, in an envelope clearly marked "Mynachlogddu Water Supply," rot later than Noon on the 1st JUNE, 1981.

C. J. H. BEYNON, Clerk to the Council.

Council Offices, Narberth Pemb

### NORTH BEDFORDSHIRE WATER BOARD. KEMPSTON TRUNK MAIN.

KEMPSTON TRUNK MAIN.

FIXED-PRICE TENDERS are invited for the FOLLOWING CONTRACTS in connection with the Sedford-Kempston Trunk Main of approx. 4.250vd. of 18in. and 3.500vd. of 6in. Bitumen Sheathed Soun-iron Pipes with Tyton Joints, together with ancillary works.

CONTRACT "8 "—crossing of the Bedford-Kettering main railway line by 18in. Steel Main to be thrust bored.

CONTRACT "8 "—crossing of the Bedford-Kettering main railway line by 18in. Steel Main to Be thrust bored.

CONTRACT "8 "—crossing of the Bedford-Kettering main railway line by 18in. Steel Main to Be thrust bored.

CONTRACT "Win 15in the price of 18in the Steel Pipes to be laid under the river bed.

Contractors tendering should have experience of similar works, and for Contracts "8" and "C." only contractors experienced in this specialist work will be considered.

Tender docume Board. North Bedfordshire Water Board.

Tenders, in plain sealed envelopes endorsed "Tender To Contract —, for Kempston Water Main, should be returned to the Clerk to the North Bedfordshire Water Board.

Tenders, in plain sealed envelopes endorsed "Tender Contract —, for Kempston Water Main, should be returned to the Clerk to the North Bedfordshire Water Board.

Tenders, in plain sealed envelopes endorsed "Tender Contract —, for Kempston Water Main, should be returned to the Clerk to the North Bedfordshire Water Board.

Town Hall,

Bedford.

Town Hall, Bedford. 2nd May, 1961.

### CONTRACTS

# BOROUGH OF HERTFORD. BOROUGH OF WIDNES.

CONTRACT NO. 400.

HOUGH GREEN RECREATION GROUND (7.9 ACRES)—PORTION NO. 1.

(7.9 ACRES)—PORTION NO. 1.

TENDERS are invited for the ABOVE CONTRACT, comprising: Site Clearance: the Levelling, Grading and Subsoil Drainage of 4.6 acres: Boad and Footway Construction (1.470 so. yd.); Foul Drainage: Frection of Chain Link Fencing (880 lin. yd.). This portion of the Contract does not include seeding and planting. Copies of Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer. Town Hall, Widnes, on payment of a deposit of \$2.2s.. Town Hall, Widnes, on payment of a deposit of \$2.2s.. Town Hall, Widnes, on payment of a deposit of \$2.2s.. Town Hall, Widnes, on payment of a deposit of \$2.2s.. Town Hall, Widnes, on payment of a deposit of \$2.2s.. Town Hall, Widnes, not later than 12 Noon on FRIDAY, 26th May, 1961.

FRANK HOWARTH, Town Clerk.

Town Hall, Widnes. May, 1961,

# BOROUGH OF WREXHAM.

NURSERY SITE-REGENT STREET.

FIXED-RICE TENDERS are invited for the CONSTRUCTION of a SEWAGE EJECTOR STATION, including Sump and Rising Main.
Bills of Quantities and full particulars may be obtained from MESSRS. WARD, ASHCROFT AND PARKMAN, Consulting Engineers, 36 The Temple.
Dale Street, Liverpool, on payment of a deposit of 2.2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed sealed and delivered to to the undersigned not later than 12 Noon, MONDAY, Sth June, 1961.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS, Town Clerk.

Guildhall, Wrexham, May, 1961,

# BOROUGH OF GOSPORT. RECONSTRUCTION OF OMNIBUS STOPPING AREAS

Tenders are invited for the RECONSTRUCTION of approx. 460 sq. yd. of EXISTING ASPHALT CARRIAGEWAY at FOUR OMNIBUS STOPPING AREAS, in TWO COURSE DENSE TAR SURFACING In thick.

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# BOROUGH OF CONTRACT NO. 480. UXBRIDGE

RECONSTRUCTION OF WINDSOR AVENUE AND

GRANVILLE ROAD.

The Borough Council invites contractors with experience of similar work and who are willing to TENDER for the ABOVE CONTRACT to submit their names and give full details of such experience to HAROLD E. G. STRIPP, A.M.I.C.E., Borough Surveyor, 26.5 High Street Uxbridge, by the First Post on The Works will comprise the Reconstruction of approximately 15,500 sq. yd. of Existing Concrete Carriageways in Lean-mix Concrete with Hot-roiled Asphalt Surfacing, 10,000 sq. yd. of Presat Concrete Paving and Bitumen Macadam Verges, together with Kerbing, Drainage and ancillary Works.

From the names submitted, a selected list of contractors will be chosen and subsequently provided with the Tender documents.

E. RONALD WEST.

E. RONALD WEST, Town Clerk

Council Offices, 265 High Street, Uxbridge, Middx.

# BOROUGH OF UXBRIDGE.

CONTRACT NO. 481.
COLNEDALE ROAD, UXBRIDGE.
MAKING-UP UNDER HIGHWAYS ACT, 1959.

TENDERS are invited from experienced contractors for MAKING-UP the ABOVE STREET.

The works comprise: Re-laying Existing Kerbs; Reshaping the Carriageway, Making-up with Hardcore and Laying approx. 950 sq. yd. of Bitumen/Tarmacadam Surfacing: Laying approx. 680 sq. yd. of Bitumen/Tarmacadam Footway Surfacing; Constructing Garage Crossings, and Surface Water Drainage Works. Form of Tender, Specification and Bills of Quantities may be obtained from H. E. G. STRIPP, Alm. C.E. Borough be externed by First Post on MONDAY. 29th May. 1961.

E. RONALD WEST, Town Clerk.

265 High Street, Uxbridge, Middx.

### BOROUGH OF WATFORD. ELDERLY PERSONS' FLATS.

ELDERLY PERSONS' FLATS.

TENDERS are invited for the CONSTRUCTION of 19 BEDSITTING ROOM FLATS and ONE TWO-BEDROOM FLAT, in ONE THREE-STOREY BLOCK, at the Construction of the Construction

# CONTRACTS

ROYAL BOROUGH OF WIDENING OF CLARENCE STREET/EDEN STREET

TENDERS Invited for WIDENING of CARRISAL VAY in CONCRETE and HOT-ROLLED ASPRAÇA E STREET (A. 309). To include Paving, Kerbia ancillary Works.

Contract documents from Gontract documents on deposit of the Contract documents of the Contract L. V. POWELL. Town Clerk.

Guildhall, Kingston-upon-Thames, May, 1961.

# BOROUGH OF KIDDERMINSTER SURFACE DRESSING OF CARRIAGEWAYS.

TENDERS are invited for the SURFACE DRESSING approx. 101,000 sq. yd. of CARRIAGEWAYS TENDERS are invited for the SURFACE DRESSING of approx. 101,000 sq. yd. of CARRIAGRWAY Tender documents may be obtained from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster, on payment of a separate of a returnable on receipt of a bona-fide Tenders are to be returned to the undersland of later than the 29th MAY, 1967 the undersland of the Council does not bind itself to accept the lowest or any Tender.

JOHN L. EVANS. Town Clerk.

BOROUGH OF EALING CONVERSION OF FILAMENT TO SODIUM LIGHTING CONTRACT "A"—SUPPLY OF 3.500 LANTEN
LAMPS AND CONTROL GEAR.
CONTRACT "B"—SUPPLY OF 1.500 BRACKETS
and 500 CONTROL GEARBOXES.

Details obtained from the Borough Engineer too Hall, Ealing, W.S. on payment of £3 for ex-Contract, returnable on receipt of a Bona-fide Tenis Closing date of Tender: 30th MAY, 1961.

E. J. COPE BROWN. Town Ch BOROUGH OF LYMINGTON

# PRIVATE STREET WORKS ACT, 1892.

DANIELLS WALK AND GREENMEAD AVENUE

DANIELLS WALK AND GREENMEAD AVENUE.

TENDERS are invited for MAKING-UP DANIELS
WALK and GREENMEAD AVENUE, within a
Borough of Lymington.
Plans and Conditions of Contract may be insected
at the Office of the Borough Engineer. Town hai,
Bill of Quantities and on Copies of the Specification
Bill of Quantities and on Copies of the Specification
Bill of Quantities and on Copies of the Specification
Bill of Quantities and on Copies of the Specification
Fill of Quantities and the Copies of the Specification
Tenders, accompanied by priced Bills of Quantities
In plain sealed envelopes endorsed "P.S.W.—Danies
Walk and Greenmead Avenue," must be delivered to
the undersigned not later than First Post on 1st [URL
The Council does not bind itself to access the
lowest or any Tender.

A. L. SLATER.

A. L. SLATER. Town Clerk Town Hall, Lymington.

CITY OF WORCESTER

KERBING, CHANNELLING AND FOOTWAY WORKS

FIXED-RATE TENDERS are invited for the aBOWL
FIXED-RATE TENDERS are invited for the aBOWL
ROAD MAINTENANCE WORKS at TWO LOCATIONS,
and comprising the FOLLOWING:
1.900 lin. yd. of Stab Paving to Fochways,
3.100 sq. vd. of Stab Paving to Fochways,
5.100 sq. vd. of Bitumen Macadam Surtacing to
Fochways, of Bitumen Macadam Surtacing to
facing to Carriageway Hauncher, together
with other appurtenant works.
Documents, obtainable from the City Engineer and
Surveyor, 22 Bridge Street, Worcester, 1900 British
receipt of a bona-fide Tender.
Fenders, in envelope provided, to be posted to mail
the undersigned not later than MONDAY the 5a
June, 1961.
The Council do not bind themselves to accept the
lowest or any Tender.

BERTRAM WEBSTER,
Town Cirk.

C

U

Guildhall,

### WILLENHALL URB URBAN DISTRICT CHAIN LINK FENCING

TENDERS are invited for the SUPPLY and ERECTION of CHAIN LINK FENCING at WRISE SITES in the Urban District, totalling aports, 500 lin., 4d., and also the Provision of Access Gates. Tender Forms may be obtained from the England and Surveyor. Town Hall, Willenhall, Staffs, and bona-fide Tenders should be received by the information of the Chair Cha

JOHN R. RIDING. Clerk of the Council.

Town Hall, Willenhall. WILLENHALL URBAN DISTRICT

# FOOTWAY AND DRAINAGE WORKS

TENDERS are invited for LaBOUR ONLY IN KERB LAYING, CHANNELLING, INSTALLATION OF THE WAYING, CHANNELLING, INSTALLATION OF THE WAYING, CHANNELLING, INSTALLATION OF THE WAYING, CHANNELLING, INSTALLATION OF THE WAYING WAYING AND THE WAYING WAYING WAYING AND THE WAYING WA JOHN R. RIDING. Clerk of the Council

Town Hall, Willenhall, Staffs.

MIDDLESEX COUNTY COUNCIL. EAST MIDDLESEX MAIN DRAINAGE. CONTRACT E.M.S.12.

are invited for the CONSTRUCTION of

TENDERS a PUMPING MAINS in the vicinity of PWIN SLIDES.

FIRED, Middlesex.

EFFIELD, Middlesex.

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The Council dies not bind itself to accept the council dies hot bind itself to accept the needs of any Tender. The delivered in a plain pass the delivered in a plain pass the delivered to the tender's must be for Contract EMS.12." and elivered to the undersigned by Noon on MONDAY, still June. 1961
KENNETH GOODACPE KENNETH GOODACRE.

BOROUGH OF FINCHLEY. nator. S.W.1

RECONSTRUCTION OF UNCLASSIFIED ROADS.

TENDERS are invited for the RECONSTRUCTION of 10 DISTRICT ROADS, comprising approximately 25.00 super, vol. of Scartiffers approximately 25.00 super, vol. of Scartiffers and approximately 25.00 super, vol. of Scartiffers and ancillary Works, Song State of Scartiffers and Scartiffers an

R. M. FRANKLIN. Town Clerk. Municipal Offices,

ROROUGH OF HARROGATE. PRIVATE STREET IMPROVEMENT WORKS.

PRIVATE STREET IMPROVEMENT WORKS.
TENDERS are invited for the MAKING-UP of ONE
or MORE of the FOLLOWING PRIVATE STREETS:
(a) Olive Grove (part)—approx. 210 lin. yd.
(b) Olive Walk (part)—approx. 220 lin. yd.
(c) Derwent Road (part)—approx. 20 lin. yd.
(d) Olive Grove Making Cart)—approx. 50 lin. yd.
(d) Olive Grove Making Cart)—approx. 50 lin. yd.
(e) Eliton Road (part)—approx. 50 lin. yd.
(f) Billion Close—approx. 50 lin. yd.
(f) Billion Close—approx. 50 lin. yd.
(g) Billion Close—approx. 50 lin. yd.
(h) William Comprises Kerbing and Flagging to the Foctways, and Surfacing the Carriageway in Tartesdam and Functions of Contracting Plans and Conditions of Contracting Plans and Conditions of Contracting Plans and Conditions of Contracting Plans and Forms of Tender may be obtained.
Stailed and endorsed Tenders, on the official forms, together with the priced Bills of Quantities, are to be devivered, in the envelopes provided, to the Borouge Engineer not later than 10 a.m. on THURSDAY, 1st
The lowest or any Tender will not necessarily be accepted.

C. E. FELLOWS.

C. E. FELLOWS. Borough Engineer.

Municipal Offices, Harrogate. 27th April, 1961. BOROUGH OF SWINTON AND

TENDERS invited for the LAYING of approximately 800 lin, vd. al 15in, and 21in, SEWER, together with all ancillary works, in AGEROFT ROAD, Pendlebury. Octalis from BOROUGH ENGINEER, Town Hall, Swinton, Lanca. Closing date, 12th JUNE.

CITY OF WORCESTER.

ALL HALLOWS/BIRDPORT IMPROVEMENT. (BROAD STREET TO COPENHAGEN STREET.)

(BROAD STREET TO COPENHAGEN STREET.)

FIXED-RATE TENDERS are invited for the ABOVE WORKS, which comprise Widening, Reconstruction and Development of the Service Road of Servi

ne, 1961.
The Council do not bind themselves to accept the west or any Tender.

BERTRAM WEBSTER, Town Clerk.

URBAN DISTRICT COUNCIL OF

CONSTRUCTION OF ROADS AND SEWERS FOR 44 HOUSES, AND THE CONSTRUCTION OF SEWERS IN MAYFLOWER CLOSE, TRINITY STREET, ASHCROFT ROAD AND BRIDGE STREET.

TENDERS are invited for the CONSTRUCTION of ABOVE SITEWORKS and SEWERS within the Urhan District.

General Conditions of Contract may be inspected, and Drawings. Specification. Bills of Quantities and owns of Fender Obtained, from the Engineer and owns of Tender Obtained, from the Engineer and owns. The Contract of £3 Sa. which will be refunded on any contract of £3 Sa. which will be refunded on the Contract of £3 Sa. which will save a second of £3 Sa. which will save a second of £3 Sa. which will be returned to the contract of £3 Sa. which will be returned to the contract of £3 Sa. which will be returned to the contract of £3 Sa. Which will be contracted to the contract of £3 Sa. Which will be contracted to the contract of £3 Sa. Which will be contracted to £3 Sa. Which will be contract

H. P. DOREY, Clerk of the Council. Cancil Offices, Lord Street, Gainsborough, May, 1961.

### CONTRACTS

BOROUGH OF ALDERSHOT. SELECTIVE TENDERING.

The Aidershot Council has adopted SELECTIVE TENDERING.

TENDERING and consideration is now being given to compiling it of or facts, outside the compiling it of or facts, outside works and civil engineering contractors, for use in connection with works of varying character and value.

Firms who are interested are invited to apply for inclusion in one or more of these lists.

Applications should be made on the forms which may be obtained from F. W. TAYLOR, M.I.C.E. M.I.Mun.E., A.M.I.Struct.E., Borough Engineer and control to the condense of the condense

H. B. SALES. Town Clerk.

BOROUGH OF KEIGHLEY. SEWER EXTENSION, FELL LANE.

TENDERS are invited for the CONSTRUCTION of approximately 120 vd. of 12 in. diameter SEWER, together with Two Manholes.

Contract documents may be obtained from the Borough Engineer and Surveyor. College Street, Keighley. Plans and General Conditions of Contract may be insected at the office of the Borough Engineer during normal office hours.

Tenders, sealed in the work on welope provided and trenders, sealed in which we have the delivered to the undersigned not later than 10 a.m. on MONDAY. Sth June, 1961. undersigned not 5th June, 1961.

J. A. CAESAR.

Town Hall, Keighley.

CITY BATH. OF

EDUCATION COMMITTEE. BATH COLLEGE OF DOMESTIC SCIENCE

BATH COLLEGE OF DOMESTIC SCIENCE.

Contractors on the Roll of the National Inspection Council for Electrical Installation Contracting Work of the Council for Electrical Installation Contracting Work in Council for Electrical Installation Contracting Work in Council Coun

JARED E. DIXON.

CITY OF BATH.

EDUCATION COMMITTEE. BATH COLLEGE OF DOMESTIC SCIENCE.

BATH COLLEGE OF DOMESTIC SCIENCE.

Contractors desirous of TENDERING for the INSTALLATION of HEATING and MOT and COLD WATER SERVICES at 5. 6 and 7. SOMERSET PLACE, which are to he rebuilt as an extension of existing students hostel accommodation, should submit their names to the Architect, HUGH D. ROBERTS. EFF. R. I.B.A. 3.0 Brock Street, Bath, not later than Applications to Tender must be accompanied by a cheque for \$2.2s. made payable to the Bath Corporation, which will be returned on receipt of a bona-fide Tender. Specification and Form of Tender will be forwarded to applicants as soon as possible to the Corporation of Tender will be notified. Drawings may be inspected at the offices of the Architect. or at the offices of the Consultant, MESSRS. HOLMAN AND DAVIS, 17 Orchard Street, Bristol.

JARED E. DIXON.

Guildhall, Bath.

URBAN DISTRICT COUNCIL

TENDERS are invited for an AUSTIN 5-TON FORWARD CONTROL DIESEL TRUCK. Equipoed with Hydraulic Tipping Ges and Branch Control to the appropriate Schedule, which may be obscilied in the appropriate Schedule, which may be obtained from of Tender, from the office of the Engineer and Surveyor, Council Offices, Rayleigh, Essex.

Tenders to include an allowance for present Austin Normal Countrol 3-ton Truck to be taken in part of the Council of the University of the Council of the University of the Council Offices.

Council Offices.

Corneil Offices, Hockley Road,

Rayleigh, Essex. 8th May, 1961 BARNACK RURAL DISTRICT COUNCIL. WITTERING WATER SUPPLY-SCHEME "C."

AIR MINISTRY HOUSING SITES

AIR MINISTRY HOUSING SITES.

TENDERS are invited from contractors experienced in similar work for the LAYING of approximately 2,000yd, of Sin, diameter SPUN-IRON WATER MAIN, with Tyton Flexible Johts and all Valves, Hydrants, Service Tappings and Contingent Fittings, in the Parish of the Council of Tender and relative documents can be obtained on payment of a deposit of Two Guineas from the Council's Consulting Engineers, MESSRS.

STIRLING, MAYMARD AND PARTNERS, B Station Chambers, Peterborough. The deposit cheque should he relative the provided payable to the Barnack R.D.C., and the Tenders, in plain envelopes endorsed "Wittering Water Supply," to be delivered to the undersigned not later than First Post on Sth JUNE, 1961.

The Council do nat blind themselves to accept the Lewist or any Tender.

G. P. WARTERS.

Clerk of the Council Continued the Council Continued Street.

CONTRACTS

ADMINISTRATIVE COUNTY OF

EXTENSIONS to:—
(a) Burbage Hastings High School,
(b) Enderby Brockington Secondary Modern
School,
to submit names to COUNTY ARCHITECT, 123 London
Road, Leicester, by 22nd May, 1951. Bills of
Quantities available 2nd June.
Tenders to he returned not later than 12 Noon on
MONDAY, 10th July, 1961.

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

HEATING AND PLANING OF ROADS.

TENDERS are invited for HEATING and PLANING of ROADS.

TENDERS are invited for HEATING and PLANING approximately 8,500 ss. vd. CARRIAGEWAY in the NORTHERN PART of the COUNTY of County Offices.

Matlock, Derbyshire.

Tenders, in plain sealed envelope endorsed "Tender For Heating and Planing—B, and H., to the Clerk of the Council, County Offices, Matlock, by TUESDAY. 30th May, 1961.

The Council is not bind itself to accept the lowest or any Tender.

S. MENEW.

S. MEHEW, County Surveyor.

County Offices. Matlock. COUNTY BOROUGH OF BRIGHTON.

WARREN ROAD IMPROVEMENT.

W. O. DODO,

Town Hall, Brighton, 1. May, 1961.

CHEADLE AND GATLEY URBAN

TENDERS FOR PLAYGROUND EQUIPMENT.

TENDERS FOR PLATGROUND EQUIPMENT.

TENDERS are invited for the SUPPLY and ERECTION APPARATUS.

Specifications and Form of Tender may be obtained from the Parks Superintendent, Bruntwood, Cheadle, Chead

Town Hall.
Abney.
Cheadle.
Cheshire.
Bth May, 1961.

A MESBURY RURAL DISTRICT COUNCIL. FIGHELDEAN AND MILSTON SEWERAGE.

TENDERS are invited for the LAYING of 3,230 lin. vd. of 6in. and 9in. diameter CONCRETE and SPUN-IRON SEWERS, together with Precast Concrete Manholes: the LAYING of 1,700 lin. vd. of 5in. diameter SPUN-IRON PLUMPING MAIN, and 2 twin 5in. diameter SPUN-IRON SIPHON under the RIVER AVON: the CONSTRUCTION of a PUMPING STATION and Other incidental Works in the PARISMES of MILSTON, near Ameabury.

FIGHEDEAN and MILSTON, near Amesbury, Wilshire.
General Conditions of Contract. Specification, Bills of Quantities and Forms of Tender may be obtained on or after Saturday, 13th May, 1961, from the Council's Consulting Engineers, MESSRS, LEMON by Cheque made payable to the Council which sum will be returned only upon the receipt of a bons-fide Province of the Council which sum will be returned only upon the receipt of a bons-fide Tender and the return of all documents.

Drawings may be inspected at the office of the Consulting Engineers or at the Council office of the Consulting Engineers or at the Council office middle on the Council office of the Council office of the Council does not bind their than Noon on WEDNESDAY, 7th June, 1961.

The Council does not bind their to accept the lowest or any Tender.

Redworth House, Clerk of the Council.

Redworth House, Amesbury, Salisbury, Wilts, 9th May, 1961.

MARKET BOSWORTH

PARISH OF TWYCHOSS. SEWERAGE EXTENSIONS

SEWERAGE EXTENSIONS.

TENDERS are invited from suitably experienced contractors for the LAVING of average, 1,100% of fin. dia. CONCRETE and SALT GLAZED WARE SEWERS, together with Manholes and House Contract six moorths.

Kev Plan. Specification and Bill of Quantities map to the contract six moorths.

Kev Plan. Specification and Bill of Quantities map to the contract six moorths.

Kev Plan. Specification and Bill of Quantities map to the contract six morths.

Kev Plan. Specification and Bill of Quantities map to the contract of the contr

Council Offices, Market Bosworth.

SUPPLEMENT

ROYAL COUNTY OF BERKSHIRE. LONDON-BRISTOL TRUNK ROAD NO. 9 (A.4).

READING-NEWBURY SECTION.

### THATCHAM RELIEF ROAD.

THATCHAM RELIEF ROAD.

TENDERS are invited for the CONSTUCTION of about 270 d. or NEW CARRIAGEWAY and the CARRIAGEWAY and the CARRIAGEWAY and the CARRIAGEWAY the Contract provides for Site Clearance. Earthworks, the Construction of a Pedestrian Subway, Carriageway Construction in Lean-mix Concrete and Asphait, Surface Water and Foul Drainage Work, together with Footway, Accommodation and Asphait, Surface Water and Foul Drainage Work, together with Footway, Accommodation and Asphait, Surface Mater and Guantity may be obtained from the COUNTY SURVEYOR, Shire Hall, Reading, on payment of \$2.2 s., which will he returned on receipt of a bona-fide fender. Tenders must be returned in the envelope provided so as to reach me not later than Noon on WEDNES. The Council do not bind themselves to accept the lowest or any Tender.

OF NEATH. BOROUGH

# TO SURFACE DRESSING CONTRACTORS.

TENDERS are invited for the SURFACE DRESSING approximately 45,000 sq. yd. of ROADS In the Borough.

Form of Tender and Specification can be obtained from the Borough Engineer, Gwyn Hall, Neath.

Tenders, In scaled envelopes ending dementification of the second second

D. KING DAVIES. Town Clerk's Office, Town Hall, Neath.

# BOROUGH OF LYMINGTON.

### CRAWLER TRACTOR.

TENDERS are invited for ONE 50-h.p. CRAWLER TRACTOR with Front Loading Shovel. Particulars and Specification can be obtained from the Borough Engineer, Town Hall, Lymington.

A. L. SLATER. Town Clerk.

# BOROUGH OF MALDEN AND COOMBE.

# RECONSTRUCTION OF KINGSTON ROAD SECTION V.

Contractors desirous of TENDERING for the ABOVE WORKS are invited to submit their names to desire the process of the course of t

HAROLD E. BARRETT,

# SWADLINCOTE URBAN DISTRICT

The Council invite TENDERS for the SUPPLY and LAYING of PLASTIC WHITE LINING to approximately 17,500yd of CARRIAGEWAY within the Urban District, and Contract documents may be obtained from the Engineer and Surveyor, Bank House, Midland Road, Swadlincote.

Completed Tenders should be enclosed in plain sealed envelopes endorsed "Tender for Plastic White Lining, 1961," and be delivered to the office of the undersigned not later than MONDAY, the Sth JUNE, 1961.

undersigned not later than MUNDAT, the still joint.
1961.
The Council do not bind themselves to accept the lowest or any Tender.

C. D. MULL. C. D. HULL, Clerk of the Council.

Council Offices, Swadlincote.

# NEWBURY RURAL DISTRICT COUNCIL.

### THATCHAM SEWERAGE.

### N41-CONTRACT 1.

# TO CIVIL ENGINEERING AND PUBLIC WORKS

The Council invites TENDERS for the LAYING or RE-LAYING of 15.30 lin. yd. of 15.in. 18in. and 21in. CONCRETE SEWERS, and other ancillary work. Cooles of the Contract documents may be obtained, and Drawings inspected, at the Offices of the Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Jak Kings Road, Reading, Berks., as and from Thursday, 18th May, 1961, until Wednesday, 7th June, 1961, between the hours of 10 a.m. and 4 p.m., upon payment of a devosit of five Guineas by cheque made payable to the Newbury District Council, which has returned the each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn, and has returned all documents and Drawings supplied.

Tenders are to be on the official form and are to be delivered to the undersigned, in sealed envelopes, endorsed "Tender for Sewerage, Thatcham (N41 Contract 1)," but bearing no name or other mark indicating the sender, not later than Noon on WELES of the Council does not undertake to accept the lowest or any Tender.

Tip. FISKER.

Clerk of the Council.

T. J. FISHER.

Clerk of the Council. ncil Offices, hoenix House, Bartholomew Street, Newbury, Berks.

# MANCHESTER CORPORATION

TENDERS invited for the SUPPLY and DELIVERY of the FOLLOWING.

SPECIFICATION No. 1.—2.550vd. 8in. dia. Spunton on the second of the second of

### CONTRACTS

# METROPOLITAN BOROUGH OF

### PUBLIC CONVENIENCE.

Contractors wishing to TENDER for the ERECTION of a new PUBLIC CONVENIENCE and small DEPOT of the PROPERTY of a new PUBLIC CONVENIENCE and small DEPOT of the Public Convenience of the Public Convenience, plant and technical and supervisory staff available, together with names of two technical and two financial referees.

Drawings may be examined at Office of Borough Engineer and Architect, Municipal Buildings, S.W.18.

J. NOEL MARTIN.

Municipal Buildings. Wandsworth, S.W.18.

# BOROUGH OF WATFORD.

### RETILING OF ROOFS.

TENDERS are invited for RETILING the ROOFS HOUSES, the approx. total area being 240 square from the work comprises the Erection of Scaffoldi isping of existing Roofs: Provision and Fixing tens and Felting: and Laying of Plain Concretens and Fixing tens are set to the fixed fixed from the fixed fixed fixed from the fixed fixe

Tiling.

Applications for documents, with a deposit of £2 2s. (returnable on receipt of bona-fide Tender), must be sent to F. C. SAGE, Borough Engineer and Surveyor, Town Mall, Watlord, Herts., not later than TUESDAY, 23rd May, 1961.

GORDON H. HALL, Town Clerk.

# ROROUGH OF WILLESDEN. RECONSTRUCTION OF ACTON LANE-MORDAUNT ROAD TO STATION ROAD.

TENDERS are invited from experienced contractors for the REMOVAL of the EXISTING CARRIAGEWAY and the PROVISION of a NEW Bin. REINPORCED CONCRETE SLAB Surfaced with 2in. Hot Rolled Asphalt, the Redress and the Re-lay of the Kerb. Re-laying Artificial Stone Paving, and other incidental works and the Redress has been been as the Redress and the Re-lay of the Kerb. Re-laying Artificial Stone Paving, and other incidental works and the Redress and Stone Paving. Town Hall, Dyne Borguigh Engineer and Surveyor, Town Hall, Dyne

Tender documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, N.W.6, on receipt of a deposit of Two Guineas which deposit will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

The sealed Tender must be submitted in the mark of the tenderer, and must reach the undersigned not later than 10 a.m. on TUESDAY, the 6th June, 1961.

not later than 10 a.m. on TUESDAY, the 6th June, 1961.
The Council does not bind itself to accept the lowest or any Tender.

# CITY

west or and the state of the st The CLEANSING COMMITTEE Invite TENDERS for the DESIGN and COMPLETE INSTALLATION of a REFUSE HANDLING PLANT with Tip Furnaces, at WATER STREET CLEANSING DEPOT, Manchester, 3. Specifications of requirements obtainable from Specifications of requirements obtainable from CITY ARCHITECT, P.O. Box 488. Town Hall, Tenders returnable by 25th AUGUST.

### RAWMARSH URBAN DISTRICT

# HIGHWAYS ACT. 1959. CODE OF 1892.

# PRIVATE STREET WORKS AT WILLOWGARTH,

# RAWMARSH

FIXED-PRICE TENDERS are invited for the MAKING-UP of the WILLOWGARTH, Rawmarsh, and Offste Drainage Work involved may be inspected at the Council Offices, Rawmarsh, during normal office hours.

Council Offices, to tender should apply to the Council's Engineer and Surveyor for Specifications, Bills of Quantities, and Form of Tender. Sealed Tenders to be returned to the undersigned, marked "Willowgarth—Private Street Works," not later than 20th JUNE. 1951.
A depost of 5.2 2.5. is payable, which will be returned upon receipt of a bona-fide Tender not afterwards withdrawn.
G. F. CLEGG.
Council Offices.

Council Offices, Parkgate, Yorks, W.R. May, 1961.

# OSGOLDCROSS, RURAL DISTRICT

### BEAL AND CRIDLING STUBBS-CONTRACT NO. 4.

# SEWERAGE AND SEWAGE DISPOSAL WORKS.

The above-named Council invite TENDERS from experienced contractors for WORKS OF SEWERAGE and SEWAGE DISPOSAL at Beal, Kellingley and Criding Stubbs, comprising the Furnishing and Laving of about 3.860vd. of 6in. Stoneware Pipe and Souniron Pipe Sewers; 2.760vd. of 5in. and 4in. Soun-Iron Pumping Mains; Sewage Pumping Stations and Extensions to Sewage Disposal Works comprising Sedimentation Tank, Humus Tank and Studge Driving Beds; Manholes, Ventilators, etc., and other appurtenant works.

Manholes, Ventilators, etc., and other appurtenant works contractors desirous of tendering are required to send their names and addresses to D. BALFOUR AND SONS, MM.I.C.E. 131 Victoria Street, Westminster, S.W.1, accompanied by a cheque deposit of £10 made payable to the Osgoldcross Rural District Council, not later than 24th JUNE. 1951, after which full parton receipt of a bona-fide Tender and the receipt of all printed documents after the Contract has been left. Previous experience in this class of work is essential, and the contractor shall be prepared to furn's security with an approved society for the fullniment of the Contract.

sent to the wheelers.

The Council do not bind themselves to accept the west or any Tender.

JOHN W. BLAND.

Clerk of the Council.

Council Offices, Tanshelf House, 15 Front Street, Pontefract, Yorks.

# CONTRACTS

### BOROUGH OF GLOSSOP.

ROAD SURFACING.

TENDERS are invited for ROAD SURFACING of 10,000 sp. vd. of Cold Asphala 10,000 sp. vd. of Cold Asphala 10,000 sp. vd. of Cold Asphala 10,000 sp. vd. of Surveyor Municipal Surveyor Municipal Surveyor Municipal Building. Tenders, in plain sealed envelopes and surveyor aspects.

Tenders. In plain sealed envelopes endorsed "Ros Surfacing." to be delivered to the undersigned not later than First Post on THURSDA's undersigned no The Council does not bind tast to accept in lowest or any Tender.

# Municipal Buildings, Glossop, May, 1961. STAINES URBAN DISTRICT COUNCIL RESURFACING AND IMPROVEMENT TO CHERTSEY BRIDGE ROAD.

CHERTSEY BRIDGE ROAD.

CHERTSEY BRIDGE ROAD.

FIXED-PRICE TENDERS are Invited for it.

SURFACING and KERBING WORKS at Chempa of the Control o

# WITHERNSEA URBAN DISTRICT

# CLOVELLY HOUSING SITE.

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CLOVELLY HOUSING SITE.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of 122 HOMEVILL HOUSES and BUNGALOWS. 59 GARAGES. ROALS and SEWER. Tender documents may be obtained from the Surveyor. Municipal Buildings, 243 Mills of the Surveyor. Municipal Buildings, 243 Mills of the Surveyor of Municipal Buildings, 243 Mills be refunded on receipt of a bona-fide leader with the subsequently withdrawn.

Tenders, in the envelope provided, must reach the undersigned not later than Noon on FRIDAY, 21 June, 1961.

The Council does not bind itself to accept the survey of the Council Council Signed) S. B. CLARKE.

Clerk of the Council.

Municipal Buildings,

Municipal Buildings, Queen Street, Withernsea. 9th May, 1961.

# WOKING URBAN DISTRICT COUNCIL ALPHA ROAD EXTENSION-MAYBURY ESTATE

CONSTRUCTION OF ROADS AND SEWERS.

TENDERS invited for ABOVE CONTRACT. The work includes the FOLLOWING.
Approx. 3.500 Min.
Approx. 3.500 Min.
Approx. 3.500 Min.
Approx. 3.50 Min. yo. of 6in. Concete and Cast-iron Surface Water Sewer.
Approx. 240 Min. yd. of 6in. Foul Sewers.
Approx. 240 Min. yd. of 6in. Concete and Castellary Works.
Tenders of boundaries of 6in. Foul Sewers.
Approx. 240 Min. yd. of 6in. Concete and Castellary Works.
Approx. 240 Min. yd. of 6in. Concete and Bitmen.
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Approx. 240 M

# URBAN DISTRICT COUNCIL OF ROAD RESURFACING.

GAINSBOROUGH URBAN DISTRICT

# DEMOLITION WORKS.

DEMOLITION WORKS.

TENDERS are invited for the DEMOLITION as CLEARING of the FOLLOWING SITES:

(a) 23. Houses in Etherington Control of the Following Sites:

(b) Sexton's Lodge, General Control of the English of Clearing Surveyor at the address below, and at whose with the Form of Contract may be examined. Tenders, in plain sealed engineers of the Control of the English of the E

Council Offices. 6 Lord Street. Gainsborough. May, 1961.

LONDON COUNTY COUNCIL. ST. GILES CIRCUS, HOLBORN.

IMPROVEMENT-CONTRACT 1.

IMPROVEMENT—CONTRACT 1.

TEMBERS are invited from contractors having considerable experience of large road construction works. For the CONSTRUCTION for the SOUTHERN ASM of NEW ROUNDABOUT at ST. GIL AND ASM OF THE NEW ROUNDABOUT AST. GIL AND ASM OF THE NEW ROUN

GLOUCESTERSHIRE COUNTY COUNCIL.

LONDON-FISHGUARD TRUNK ROAD, A.40.

LONGLEVENS IMPROVEMENT.

LONGEVENS INTROVERSION.

TENDERS invited for the ABOVE WORKS, northoust of the Goucester City Boundary, consisting of
better City Boundary, consisting of
better Control Carriageway, and ancillary
better and the County Surveyor, Quay Street,
better County Surveyor,
control County Street,
control Cou

Shire Hall,
Gloucester.

BOROUGH OF BOOTLE. COUNTY PERMANENT HOUSING PROGRAMME.

SCHEME 36(N).

TENDERS are invited for the ERECTION of TWO BLOCKS of THREE SHOPS with FIVE MAISONNETTES OF TWO FOUR-STOREY BLOCKS of 12 MAISONNETTES and 27 GARAGES at PARK LANE, METERS AND CONTROL OF THE SHOP OF T

ed from the burdens states than 10 a.m. ders will be returnable not later than 10 a.m. HAROLD PARTINGTON.

Borough Surveyor's Department, Town Hall, Bootle, 20, Lancs, 4th May, 1961.

COUNTY BOROUGH OF

EDUCATION COMMITTEE.

TENDERS are invited for GENERAL BUILDER'S WORK in connection with the proposed Alterations, Adaptations at the College of Further Adaptations and College of Further Souliers and General Building Work. Specifications, Forms of Tender and all particulars, Specifications, Forms of Tender and all particulars, and the College of Section Road, Grat State of Section Road, Grat of Ed. 23. The Mark Specification of the College of Section Road, Grat of Ed. 23. The Mark Specification of the College of Section Road, Grat of Ed. 23. The Mark Specification of the College of Section Road, Grat of Ed. 23. The Mark Specification of the College of Section Road, Grat of Ed. 23. The Mark Specification of the College of Section Road, Grat of Section Road, Gra

ration.

ders must be returned, in the envelope provided, ders must be returned, in the envelope provided, Town Clerk, Town Hall, Great Yarmouth, not than 9 a.m. on THURSDAY, 1st June, 1961.

TOWN CLERK.

Town Hall, Great Yarmouth

BOROUGH OF BRIDLINGTON. MAIN DRAINAGE.

TENDERS are invited for the CONSTRUCTION of approximately 670vd. of 24in. diameter, 690vd. of 27in. diameter, 690vd. of 63in. diameter, and 615vd. of 63in. diameter CONCRETE TUBE SEWERS, together with Manholes, all Bridlington, in the East Ridling of forkshire.

Contractors wishing to Tender should apply for the documents and Drawings to the Council's Consulting Engineers, 104N H. HAISTE AND PARTNERS. Belmont House, 20 Ways Lane, Headingley, Leeds, 6, enclosing a decouit cheque value Three Guineas, made sessible is Bridlington Corporation, such deposit to be returned at the session of the Council of the Cou

S. BRIGGS. Town Clerk.

WORTLEY RURAL DISTRICT COUNCIL.

ERECTION OF FOUR BLOCKS OF TWO TWO-BEDROOM FLATS, FIVE BLOCKS OF TWO-BEDROOM BUNGALOWS, AND ALL ANCILLARY WORKS, AT COLLEY ROAD, ECCLESFIELD, NEAR SHEFFIELD.

FIXED-PRICE TENDER.

TENDERS are invited for the ERECTION of FOUR OCKS of FLATS and FIVE BLOCKS of BUNGALOWS TRADITIONAL CONSTRUCTION on the ABOVE

STE.

Secifications. Bills of Quantities and Form of Tender may be obtained from Mr. ARTHUR WIKELEY.

Geodesia. B. Minst.H.E. MR.S.H. on payment of a decount. B. Minst.H.E. MR.S.H. on payment of a decount. B. Minst.H.E. with the prefunded on receipt of a bona-doc Tender of the control of the country of th

the Council.

Realied Tenders, in the endorsed envelope provided, at he received by the undersigned not later than Moon on THURSDAY, 29th June, 1961.

The Council du not bind themselves to accept the ouncil du not bind themselves to access and a service and the brawings may be inspected at the the Drawings may be inspected at the the Engineer and Surveyor during the normal

ADRIAN M. KELLY, Clerk of the Council.

### CONTRACTS

COUNTY BOROUGH OF

MUNICIPAL AIRPORT EXTENSIONS, 1961.

SURFACING CONTRACT.

TENDERS are invited for SURFACING abstrax
50,000 sq. vd. of NEW SOIL CEMENT STABILISED
PAVEMENT at SOUTHEND-ON-SEA MUNICIPAL
AIRPORT, together with incidental works in connection
therewith.

bona-nide Tender and/or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned and endorsed "Municipal Airport Surfacing Contract 1961," are to be delivered to this Office by 3 p.m. on the 2nd JUNE, 1961, and no Tender received thereafter will be considered.

No Tender will be received except in the special envelope provided, which shall not bear any name control of the property of the lowest or any Tender.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

Municipal Buildings, Southend-on-Sea.

COUNTY BOROUGH OF

ROAD AND SEWER CONSTRUCTION.

ROAD AND SEWER CONSTRUCTION.

The CORPORATION is propared to receive TENDERS for the FOLLOWING WORKS:

(1) Construction of Builders' Roads and Sewers.

(Glebe Farm Estate.

(2) Private Street Construction:

(a) Egerton Road A-B.

(b) Vailey Drive A-B.

(c) Carisbrooke Road C-D.

Drawings may be inspected, and Specification, Bills of Quainties and forms of Forder obtained on application to the property of a bona-hide Tender not subsequently withdrawn. Tenders, addressed to the Chairman of the Works Committee, are to be delivered to my Office not later than Noon on FRIDAY. 9th june, 1961. No Tender will be accepted unless enclosed in the envelope property of the property of the property of the works.

The Corporation does not bind itself to accept the lowest or any Tenders, and so reserves the right to accept separate Tenders for any of the works.

ERIC J. WAGGOTT.

Municipal Buildings, West Hartlepool. 15th May, 1961.

WHITSTABLE URBAN DISTRICT

HIGHWAYS ACT, 1959.

DOWNS AVENUE—LENGTH 1.578FT. APPROX. LISMORE ROAD—LENGTH 670FT. APPROX. CHERRY ORCHARD—LENGTH 450FT. APPROX.

TENDERS are invited for the MAKING-UP of the ABOVE ROADS, comprising the Construction of Concrete Carriageways, Footway Paving, with Verges and the Construction of Foul and Surface Water Sewers.

and the Construction of Foul and Surrace water Sewers.

Sewers.

Sewers.

Sewers.

Guantities may be obtained, and the Drawings inspected, at the Office of the Engineer and Surveyor, The Castle, Whitstable, during normal office hours.

The Tenders are to be returned to the undersigned, in a plain sealed envelope endorsed as instructed on the Contract documents, and must be delivered by not later than Noon on MONDAY, 12th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender, and reserve the right to accept any one of the above three Tenders.

F. TOMLINSON,

Clerk of the Council.

The Castle, Whistable, 9th May, 1961.

BURGESS HILL URBAN DISTRICT CONCRETE MIXER.

The Council invites TENDERS for the SUPPLY and DELIVERY of a CONCRETE MIXER. Details of requirements and of tender may be obtained from the understand.

STANLEY JEFFS.
Clerk of the Council.

Council Offices.
32 Church Road.
Burgess Hill,
Sussex.

K EYNSHAM URBAN DISTRICT COUNCIL. SURFACE DRESSING, 1961.

TENDERS are invited for CARRYING OUT the SURFACE DRESSING of approx. 30,000 sq. vd. of DISTRICT ROADS within the Urban District. Specification and Form of Tender may be obtained upon application to the Engineer and Surveyor, Council Offices, Keynsham, Bristol.

Tenders, in plain sealed envelopes endorsed "Surface Dressing," should be delivered to the undersigned not later than First Post, FRIDAY, 16th JUNE, 1961.

GEO. R. ASHTON. Clerk of the Council.

Council Offices, Keynsham, Bristol. 8th May, 1961.

NORTH EAST LINCOLNSHIRE WATER BOARD.

CLEETHORPES WATER TOWER-RECONSTRUCTION.

TENDERS are invited from experienced contractors for the DISMANTLING and REMOVING of an EXISTING CIRCULAR STEEL TANK of 250.000 galicapacity, and the CONSTRUCTION of a NEW REINFORCED CONCRETE CIRCULAR WATER TANK on an existing R.C. Shaft in Cleethorpes. The Roof of the New Tank will be approx. 160ft. above ground level. Drawings. Specifications and Bills of Quartitles may be obtained from the undersigned, to whom sealed Tenders should be continued from the undersigned, to whom sealed Freders should be continued from the undersigned, to whom sealed Freders should be continued from the undersigned. To whom the continued from the undersigned to whom sealed Freders should be continued from the undersigned. The post on MONDAY, 19th June, 1961 June, 1961 Tenders should be continued from the undersigned. The post on MONDAY, 19th June, 1961 June, 1961 Tenders should be continued from the continued from the undersigned to whom sealed the post of the

Town Hall Square, Grimsby. Bin May, 1961.

### CONTRACTS

# MONTGOMERYSHIRE

HIGHWAYS DEPARTMENT.

ROAD SURFACE DRESSING.

ROAD SURFACE DRESSING.

TENDERS are invited for the APPLICATION of aBSPUTX. 135,000 sallons of HOT TAR-BITUMEN VARIOUS SITES throughout the County. Specification and Form of Tender may be obtained on application to the undersigned. Tenders must be delivered in plain envelopes or mark indicate Dressing." and bearing no name or mark indicates Dressing." and bearing no name or mark indicates Dressing." and bearing no mame or mark indicates Dressing." and bearing no hame or mark indicates the sallong the properties of the country Council does not bind itsuit to accept the brillest The Council does not bind itsuit to accept the brillest the work to more than one contractor.

MEURIG J. DAVIES,

County Offices.

County Offices,
Welshpool, Mont.
10th May. 1361.

BOROUGH OF REIGATE. 18 DWELLINGS-WOODHATCH FARM ESTATES.

REIGATE.

FIXED-PRICE TENDERS are invited for 15 THREEBEDROOM HOUSES, THREE 1-STOREY OLD PEOPLE'S
ANNEXES and 15 GARAGES, based upon Bills er
Quantities for Substructure and Site Works, subject
to Remeasurement as work proceeds, and upon Lawip
Sum for Superstructure of the Dwellings based upon
Form of Tender, Specification, Bills of Quantities
and Plans obtainable from the Borough Engineer
and Surveyor, Town Hall, Reigate, on payment of a
deposit of £2 2s., refunded upon the submission of a
bona-hde Tender or the return of all Plans and
Geposit of £2 2s., refunded upon the submission of a
bona-hde Tender or the return of all Plans and
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A

Town Hall, Reigate, May, 1961.

BOROUGH OF BASINGSTOKE.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of CROSSBOROUGH PHILL. The Work includes the CROSSBOROUGH PHILL. The Work includes the CROSSBOROUGH PHILL. The Work includes the CROSSBOROUGH PHILL. The Work in Cludes the CROSSBOROUGH PHILL. The Work in CROSSBOROUGH PHILL. The Work is the Construction of proximately 1400 sm yd. af Tarmacadam Footbaths: the Construction of Footbath in Construction of Footbath Phill. The Construction of Footbath Specification. Bill Laying of Stormwater Drainage.

Specification. Bill Laying of Stormwater Drainage.

The Construction of Specification of Footbath Phill. The Construction of Footbath Specification. Bill Laying of Stormwater Drainage.

The Construction of Specification of Private Specification. Bill Laying of Stormwater Drainage.

The Construction of Specification of Private Street Works—Crossborough Hill. Includer for Private Street Works—Crossborough Hill. The Concil do mot bind themselves to attend the lowest or any Tender.

R. J. PURVIS.

R. J. PURVIS. Town Clerk.

Municipal Buildings, London Road, Basingstoke, 10th May, 1961.

SOUTH EAST DERBYSHIRE RURAL

ALVASTON AND BOULTON SEWERAGE AND

ALVASTON AND BOULTON SEWERAGE AND STOCKER FLAT SEWERAGE.

TENDERS are invited for CARRYING OUT the WORKS which comprise the FOLLOWING.—

(1) Foul Water Sewers, 6in., 9in. and 12in. dia., Sait clazed Ware, approx. 1,430 lin. vd., complete with Manholes.

(2) Combined Sewers, 35in. to 54in. dia., Spun-Concrete, approx. 1,300 lin. vd., complete with Brick Manholes.

(3) Storm Water Overflow Chamber.—A Brick manholes.

(4) Pumping Station.—An Automatic Pumping Station with Wet and Dry Wells of Mass Concrete and Brick Superstructure to hissise four electrically driven centrifugal, pumps, control sear, etc., 170 lin. vd. of 8in. dia.

(5) Elector Station.—A small Automatic Elector Station of Mass Concrete and Brick construction housing two electors, control pear, etc., 260 lin. vd. of 4in. dia. Rising Main.

(6) Surface Water Sewer and Regrading on WaterCourse, 36in. and 48in. Spun Concrete, Manholes, etc., Regrading and Desamsing existing Watercourse, approx. 1,300 lin. vd. of the control pear, etc., 260 lin. vd. of the dia. Rising Main.

(7) The Restoration of Surfaces and the Maintenance of the Works for a period of the Concrete.

(7) The Restoration of Surfaces and the Maintenance of the Works for a period of Cooles of moths.

Cooles of moths of Surfaces and the Maintenance of the Works for a period of Cooles of moths.

Tender may be obtained from SIR MRESERT UMPRIES AND McDONALD, Consulting Engineers, Rt Chambers, 276 Monument Road, Edghaston, rmingham, 16, on the desired of the SIR Mediaston, rmingham, 16, on the desired of the SIR Mediaston of the

navable to the South East Derbyshire Rural District Council.

Particulars of the program works can be inspected alily between 9.30 a.m. to 12.30 p.m. and 2 n.m. to 5 p.m.. Monday in Friday inclusive, at the Office of the Consulting Engineers, and at the Office of the Council Offices, 5t. Mary's Gate, Derby. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

If Quantities, enclosed separately in the Stroperty of Quantities, enclosed separately in the Stroperty of Quantities, enclosed separately in the Stroperty of Council Offices. St. Mary's Gate. Derby. not later than Noon on MONDAY. 3rd July. 1961. Tenders and/or documents residend after that time will not be considered.

The Council of not bind themselves to accept the lowest or any Yender.

CLAYYON.

F. CLAYTON.

St. Mary's Gate, Derby, May, 1961.

SUPPLEMENT

# BOROUGH OF EDMONTON. DEVELOPMENT OF OPEN SPACE-

TENDERS are invited for the LAYING OUT of a 6'2-ACRE PLAYING FIELD. The Work includes the Construction of 320 lin. yd. of New Road, the Breaking Out of Existing Roads and Mouse Foundations. and Applications for Form of Tender and Bills of Quantities, accompanied by a deposit of £2.2s., which will be refunded only on receipt of a bona-fide Tender and other Contract documents, to be made to the Borough Engineer and Surveyor, Town Hall, Edmonton, Tender General Contract to the undersigned not later than 12 Noon on MONDAY, 12th June, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

H. BACKHOUSE.

H. BACKHOUSE,

Town Hall, Edmonton, N.9.

# BOROUGH OF MALDON. MAIN SEWERAGE AND SEWAGE DISPOSAL

MAIN SEWERAGE AND SEWAGE DISPOSAL.

The COUNCIL propose to invite FIXED-PRICE
TENDERS from selected firms for the CONSTRUCTION
of a BALANCING TANK and Detritus Channels:
EIGHT PYRAMIDAL SEDIMENTATION TANKS 18th.
Square; FOUR PERCOLATING FILTERS 110ft. dia..
with Dosing Chamber; FOUR PYRAMIDAL HUMUS
TANKS 18th. square; TWO STORM WATER TANKS
each 77tt. x 42tt., combined with a Recirculation
Pumping Sump and Pumphouse; a SLUDGE VACUUM
FILTRATION INSTALLATION; an EARTH-BANKED
AFTERSTORAGE LAGOON to contain 10.800,000
gallons; and Distribution Pipework and other
ancillaries.

gallons; and Distribution Pipework and other ancillaries. Qualified contractors wishing to tender for the above works are invited to apply for inclusion of their above works are invited to apply for inclusion of their Applications, together with the names of not less than three Engineers for whom similar work has been carried out recently, should reach the Engineers. MESSRS. GRANTHAM, BRUNDELL AND FARRAN, 20 South Parade, Doncaster, not later than 27th MAY, 1961.

K. C. ROBERTSON, Town Clerk.

Municipal Offices, Maldon, Essex

### BOROUGH OF DOVER.

RESURFACING OF HIGHWAYS, 1961-62.

RESURFACING OF HIGHWAYS, 1961-62.

FIXED - PRICE TENDERS are invited for SUPPLYING and LAYING, with Mechanical Plant, FINE COLD ASPMALT. BITUMEN MACADAM and DENSE TAR SURFACING to VARIOUS CARRIAGE-WAYS within the Borough. Ender documents may be obtained from the Borough Engineer and Surveyor, Brook House, Dover, on deposit of £2 2s., returnable on receipt of a bonateness of the provided must reach the undersigned not later than 10 a.m. on MONDAY, 2nd June, 1961.

JAMES A. JOHNSON.
Town Clerk.

New Bridge House, Dover.
10th May, 1961.

BOROUGH OF SHREWSBURY.

MAKING-UP OF GRANVILLE STREET.

MAKING-UP OF GRANVILLE SINGLE.

TENDERS, which must be received by 10 a.m.
12th JUNE, are invited for the ABOVE PRIVATE
STREET WORKS, which comprise the following approx.
and Footpath: 170yd. Kerb and Channel, Surface
Water Drainage, and other ancillary works.
Forms of Tender, Bills of Quantities and Specification may be obtained from. and Drawings inspected at, the Office of the Borough Surveyor, Guidhall, Dogols,
Shrewabury, on receipt of egyptic CONTON.
S. R. H. LOXTON.

### OF WEMBLEY. BOROUGH MOTOR MOWERS FOR HIGHWAYS WORK.

MOTOR MOWERS FOR HIGHWAYS WORK.

TENDERS, which must be received not later than
Noso on 2nd JUNE, 1961, are invited for the SUPPLY
end DELIVERY of 20 MOTOR MOWERS of various
sizes.

Form of Tender, Schedule of Prices and particulars
may be obtained from the BOROUGH ENGINEER AND
SURVEYOR, Town Hall, Wembley, at whose Office
Conditions of Contract may be inspected.

URBAN DISTRICT COUNCIL OF
DENTON.

VICTORIA PARK TENNIS COURTS. SURFACING WORKS.

TENDERS are invited for the SURFACING of the TENNIS COURTS at VICTORIA PARK, Denton, to be completed before the 31st March, 1962.

Bills of Quantities, Specifications and Form of Tender may be obtained on application from the office of the forestern of the specific of the undersigned, should be delivered not later than 10 a.m. on MONDAY, 5th June, 1961.

Town Hall.

# URBAN DISTRICT COUNCIL OF

TENDERS are invited for the PROVISION of METAL EXTENSION BRACKETS and ERECTION and WIRING O' CONCRETE COLUMNS. METAL BRACKETS. LAMERNS. 200-watt SODIUM LAMPS and CONTROL GEAR. Columns and Lanterns. Lamps and Control are to be obtained from a nominated supplier.

and Control are to be obtained from a hominated supplier.

The Improvement Scheme covers approximately four miles of Class 8 Roads.

Form of Tender. Specifications and Bills of Quantities may be obtained from the Engineer and Surveyor, Manor House. Turners Hill, Cheshunt, upon deposit of £2, which will be returned on receipt of a bona-fide Tender.

Sealed Tenders endorsed "Improved Street Lighting. Sealed Tenders endorsed "Improved Street Lighting. Sealed Tenders endorsed to the undersigned not later than Noon TUESDAY. 13th June, 1961.

G. S. NEWNHAM.

Manor House,

### CONTRACTS

# ARGYLL COUNTY COUNCIL. BOWMORE AND PORT ELLEN RURAL WATER SUPPLY.

The Council will swortly invite TENDERS for VARIOUS WORKS in connection with the ABOVE-NAMED WATER SUPPLY on the ISLAND of ISLAY. The Works comprise: Construction of a Smail Dam and the Construction of Tenders and the Construction of Two 0,000-Gallon Mass Concrete Contractors who wish to Zounce to Contractors who wish to Contractors who wish to

Construction of Two 60,000-Gallon Mass Concrete Service Reservoirs.

Contractors who wish to Tender should send their names to the Consulting Engineers. ROBERT H. CUTHBERTSON AND ASSOCIATES, 13 Egilnton Control of the Consulting Engineers. ROBERT H. COURT of the Control of th

A. D. JACKSON. County Clerk BOROUGH OF OLDBURY.

ARTIFICIAL FOOTBALL PITCH AT BIRMINGHAM ROAD RECREATION GROUND.

### CONTRACT NO. 61/5.

KENNETH PEARCE, Town Clerk.

Municipal Buildings, Oldbury, Near Birmingham, May, 1961.

### BOROUGH OF OLDBURY. PROVISION OF ATHLETICS FACILITIES AT

STAGE 1-PART 1: ACCESS PATHS, DRAINAGE.

CONTRACT NO. 61 6.

CONTRACT NO. 61 6.

TENDERS are invited from experienced contractors, on a Fixed-orice Basis, for the ABOVE WORKS, coma Fixed-orice Basis, for the ABOVE WORKS, coma Fixed-orice Basis, for the ABOVE WORKS, comand the control of the Control of Concrete Company of the Control of Concrete Edging, the Track Drainage Layer, and sundry other works.

Copies of the General Conditions of Contract and Drawings may be inspected at the Office of the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury, from whom copies of the Bills of Quantities, Specification, Forms of Tender and Company of Co

KENNETH PEARCE, Town Clerk.

# Municipal Buildings, Oldbury, Near Birmingham. Near Birmingham. May, 1961. TO BUILDING CONTRACTORS.

# CONTRACT 709-27 FOUR-STOREY DWELLINGS-TESSALL LANE, EGGHILL LANE ESTATE, NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of a, G. SHEPPARD FIDLER. City Architect, Baskerville House, Civic Centre, Birmingham, 1. to whom all be made by 25th MAY. 1961. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bonade Tender, or on notification of inability to tender, together with the return of the documents to describe the contract of the comments of the

T. H. PARKINSON.

# FAREHAM URBAN DISTRICT COUNCIL.

TENDERS invited for CONSTRUCTION of HARD TENNIS COURTS at FOLLOWING SITES:

One Court at Warsash Recreation Ground. One Court at Burridge Recreation Ground. Two Courts at Titchheid Recreation Ground. Two Courts at Titchheid Recreation Ground. Two Courts at Titchheid Recreation Ground. Two Courts at Tenham Park Recreation Ground. Contractors may tender for one or more of these works, and each will form a separate contract. On the Court of the C

B. W. RANDS. Clerk to the Council.

# CONTRACTS

# COUNTY BOROUGH OF SOUTHAMPTON CONTRACT S.219-REPAIRS TO GARAGE ARON

TENDERS are invited for THIS CONTRACT TO THIS CONTRACT TO

# COUNTY BOROUGH OF BLACKPOOL

TENDERS (by 2.30 p.m., MONDAY, Sh. in:
1961) are invited for the PREPARATION of RAINE
FIELDS at the junction of HIGHFIELD ROA
ST. ANNES ROAD, comprising an area of 7.1 km
Miscellaneous Works.
Particulars and Form of Tender from Bonnes
SURVEYOR (ARTHUR HAMILTON, B.Sc.), Po. In
17. Municipal Offices, Blackpool, on Payment of
18. Municipal Offices, Blackpool, on Payment of
19. Municipal Offices, Blackpool, on Payment of
19. Municipal Offices, Blackpool, on Payment of

# BOROUGH OF SOUTHALL

ANNUAL CONTRACTS (1ST JULY, 1961 - 30TH JUNE, 1962). COAL, SMOKELESS FUEL, COKE AND FUEL (HEATING).

The COUNCIL invite TENDERS for the SUPPLY of the ABOVE.
Forms of Tender and particulars may be obtained from the Borough Engineer and Surveyor. Tom the Southall (enclose stamped addressed foolsess of Tenders, in the envelope provided, beautign indication of the sender, sealed and endorsed Tenders, in the envelope provided, beautign indication of the sender, sealed and endorsed Tenders to the State of the

Town Clerk's Offices, South Road, Southall, Middx. May, 1961.

# BOROUGH OF BEDFORD

CIVIL ENGINEERING WORKS.

The COUNCIL will require TENDERS in the set (months for the FOLLOWING WORKS:

(1) Brickmill North Housing State—First Sign Road and Sewer Works.

The works comprise the Construction of approx. 72,000 sq. yd. of Hardone and Tarmacadam Carriageway. the Laving of 4,200 lin. yd. of 91n. and 121n. dia. for sign and the second s

# Town Hall, Bedford, 4th May, 1961. CITY OF WORCESTEL CONSTRUCTION OF MANHOLES ON EXISTING SEWERS-1961/62.

TENDERS are invited for the LOCATION BEXCAVATION of the EXISTING SEWER IN DIGHT ROAD and DIGLIS LANE, and for the COMSTIT. TON THEREON of FOUR BRICK MANHOLIS. Tender documents are obtainable from the Complineer, 22 Bridge Street, Worcester, upon four of One Guinea, returnable on receit of a lawst Tender.

Closing date: MONDAY, 12th June, 1961.

BERTRAM WESTER.
TOWN CIT.

RICKMANSWORTH URBAN DISTRICT

# COUNCIL HOUSES-EXTERNAL PAINTING

TENDERS are invited from experienced first to EXTERNAL PAINTING.

TENDERS are invited from experienced first to EXTERNAL PAINTING and incidental Repair.

127 CONCIL HOUSES on the MILL RID of CROXLEY GREEN HOUSING ESTATES, delived three Contracts of 36. 37 and 54 houses, reasonable the Completion dates will be the Same Specifications and Form of Tender may be a first to the Completion dates will be the Same Specifications and Form of Tender may be a first to the Completion of the Completion of

C. G. RANSOME WILLIAMS

Council Offices. Rickmansworth. 9th May, 1961.

COUNTY BOROUGH OF BLACKBURN.

TENDERS are invited for the UNDERMENTIONED WORK. NOERS are invited.

Note Rolled Asphalt Surfacing of approx. 43,700 for Rolled Asphalt Surfacing of approx. 43,700 for Rolled Asphalt Sand Carpet on Various Private Streets, etc.

Streets, etc.

Specifications on approximately specifications on approximately specifications of approximately specifications on approximately specification of approximately specifications on approximately specification of approximately specification on approxi

BOROUGH OF DROITWICH. CONSTRUCTION OF 32 BATHROOMS.

Building contractors wishing to TENDER for Building SEATHROOMS, etc., to houses on Three Sites in DROITWICK-Building on or before 31st MAY, amens to the aboosit of \$2.2s., to be returned on receipt of Bona-Ref Tender.

GRAHAM L. ROBINSON, M. I. Mun. E., Town Hall.

OL

Town Hall, Borough Engineer and Surveyor. Droitwich, 11th May, 1961.

BOROUGH OF HENDON.

(A) HENDON CEMETERY AND CREMATORIUM.

(B) CEDARS CLOSE, HENDON.

The BOROUGH COUNCIL Invites TENDERS for the FOLLOWING:
(a) For the construction

The BOROUGH COUNCIL invites TENDERS for the FOLLOWING:

(a) For the construction of 9in, and 6in, Soil (a) Sewers and Foundations of Access Road, Sewers and Foundations of Access Road, and Surfacing of Carriageway at Hendon Competery of Carriageway at Hendon Competery of Carriageway at Hendon Cametery of Carriageway at Hendon Cametery of Carriageway at Hendon N.W.4. under the Provides of Part IX of the Highway of Carriageway of Part IX of Highway of Carriageway of Part IX of Highway of Carriageway of Part IX of Highway of Carriageway of Carriageway of Part IX of Carriageway of Carriageway of Part IX of Carriageway of Carriageway of Part IX of Carriageway of Carriageway of Part IX of Carriageway of Carriageway of Carriageway of Part IX of Carriageway of Carriag

(UNE, 1961.

This invitation to tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS, Town Clerk.

BOROUGH OF CHATHAM.

HIGHWAYS ACT, 1959.

MAKING-UP OF BRAKE AVENUE.

MAKING-UP OF BRAKE AVENUE.

TENDERS are invited for the PROVISION and ANDERS a

ROWLAND NEWNES, Town Clerk.

Town Hall, Chatham

CIT OF LEEDS. TO CONTRACTORS.

PROPOSED SEWERS AT KNOWSTHORPE

TENDERS are invited by the TOWN PLANNING
AND IMPROVEMENTS COMMITTEE or the CONSTRUCTION of a NEW SIZE ATER TOWN PLANNING
AND IMPROVEMENTS COMMITTEE OF THE CONSTRUCTION of a NEW SIZE ATER TOWN PLANNING
Reinforced Concrete Pipes varying in size from 18in.
Addin. Internal dia., approx. 1,340 lin. yd. In length,
and including Manholes and incidental works, and the
Culturing of the Beck at the proposed Abattol's Size.

The Size Addition of Contract. Billis
And Size Addition of Contract.

The Corporation of Size Addition of PRIDAY, 7th
Internal Contract of Contract.

The Corporation does must bind itself to accept the
lowest or any Tender.

D. CURRIE, M.I.C.E..

D. CURRIE, M.I.C.E., City Engineer.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

CONSTRUCTION OF GARAGE BASE, RUN-IN AND FOOTPATH CROSSOVER AT GREENHILL LANE, WARLINGHAM.

TENDERS are invited for the CONSTRUCTION of GARAGE BASE, RUN-IN and CROSSOVER for a BLOCK TWO GARAGES.

Coile of the Specification, Plan and Form of Tender me be obtained on application to the Engineer Council Offices, Caterhand, are to be delivered to the undersigned not later than 4 p.m. of FRIDAY, 9th June, 1961.

B. J. SMERDON,

Council Offices,

Council Offices,

### CONTRACTS

COUNTY BOROUGH OF WALLASEY. GROUP " B" STREET LIGHTING EQUIPMENT.

TENDERS are invited for the SUPPLY and DELIVERY to MILL LANE DEPOT, Wallasey, of the FOLLOWING STREET LIGHTING EQUIPMENT:
52 Reintered Concrete Group "B" Street Lighting Columns.
52 Post To Group "B" Street Lighting Lanterns.
52 Details are obtainable from the Borough Engineer and Surveyor, Town Hall, Wallasey.
Tenders to he sealed in the official envelope provided and must reach the undersigned not later than 9 a.m. on WEDNESDAY, 7th June, 1961.

A. G. HARRISON.
TOWN CIEFK.

### BOROUGH OF WOOD GREEN. STREET LIGHTING.

TENDERS are invited for the FOLLOWING CONTRACTS in connection with the Council's Scheme for the Insalation of Improved Street Lighting:

(a) Provision of 40 140-W Sodium Lanterns and Control Gear.

(b) Provision of 40 140-W Sodium Lanterns and Control Gear.

(c) Provision of 153 3 x 80-W Fluorescent Control Gear.

Contract documents may be obtained from the Office of the Borough Engineer, Town Hall, Wood Green, N.2. In plain sealed envelopes endorsed ender, or Street Lighting—Contract 'A' Got mark indicating appropriate), but bearing no lame or mark indicating appropriate), but bearing no lame or mark indicating the sealed enders on a THURSDAY, 8th June, 1981.

G. W. PLATER.

G. W. PLATER, Town Clerk.

Town Hall, Wood Green, N.22. 16th May, 1961.

BOROUGH OF WOOD GREEN. CONSTRUCTION OF SEWERS-COMMERCE ROAD.

TENDERS are invited for the CONSTRUCTION of portox. 200 lin. yd. of 9lin. FOUL and SURFACE ATER SEWERS in Commerce Road, in Trench and eading. The works include the Construction of 5lx and the Construction of the Existing

WATER SEWERS in Commerce Road, in Trench and heading. The works include the Construction of Six New Manholes and the Reconstruction of Two Existing The Drawing may be inspected, and the contract documents obtained, from the Office of the Borough Engineer, Town Hall, Wood Green, N.22, upon payment of a deposit of One Guinea which will be refunded on receipt of a bona-fide Tender, provided the latter is not withdrawn.

Tenders, in plain sealed envelopes endorsed Tender for Construction of Sewer," but bearing no name or mark indicating the sender, must be returned Town and the Construction of Sewer, when the Construction of Sewer is the Construction of Sewer is the Construction of Sewer in the Construction

G. W. PLATER, Town Clerk.

Town Hall, Wood Green, N.22. 16th May, 1961.

BOROUGH OF THORNABY - ON - TEES. MANDALE BECK CULVERT AND SEWER, AND

MANDALE BECK CULVERT AND SEWER, AND IMPROVEMENT WORKS.

TENDERS for the CONSTRUCTION of the FOLLOWING WORKS are invited: (1) on a Fixed-price Basis, and (ii) including a Variation of Price Clause.

(a) The Construction of the Clause.

(b) Including a Variation of Price Clause.

(c) Goldin, dia. R.C. Pipes with O.G. Joints, to obtain the Construction of 14 New Manholes with two large Overflow Chambers, and Modifications of a cristing Manholes.

(c) Including Manholes.

(d) Existing Manholes.

(e) So existing Manholes.

(e) So existing Manholes.

(e) The Construction of 14 New Manholes with two large Overflow Chambers, and Modifications of about 1,200 lin. yd. with Concrete Outfail Flume and Tidal Valve.

Tender documents and Drawings can be obtained from ERIC G. LEDIARD, M.I.C.E., 4 Eldon Square, Newcastle upon Tyne 1, on or after the 11th May, 1961. Applications must be accompanied by a cheque deposit of £10 made payable to the Thornaby and Plans after the Contract has been let.

Contractors applying for Tender documents will be required to furnish proof of their experience in the construction of drainage works of a similar magnitude, and bearing no indication of the sender, must be delivered to reach the undersigned on or before 12 Noon on TUESDAY. 20th June. 1961.

The Council do not bind themselves to accept the lowest or any Tender.

A. STOCKWELL,

A. STOCKWELL.

Town Hall, Thornaby

BOROUGH OF TIPTON.

PROTECTIVE CLOTHING.

QUOTATIONS are invited for the SUPPLY of PROTECTIVE CLOTHING for a seried of 12 months. Detailed list and quantities of seich type of clothing required will be forwarded on application to the Borough Engineer and Surveyor, Municipal Buildings, Sedgley Road West, Tioton.

Quotations must be delivered to the undersigned not, 1981.

K. W. MADIN. Town Clerk.

Municipal Buildings, Sedgley Road West,

WILLENHALL URBAN DISTRICT

SEWER CLEANING.

TENDERS are invited for the CLEANING OF SEWERS AND OPEN CHANNELS at the SEWAGE DISPOSAL WORKS and at various other locations in the Urban District.

Tender documents can be obtained from the Engineer and Surveyor, Town Hall, Willenhall, Staffs, and bona-fide Tenders should he received by the undersigned, in plain sealed envelopes endorsed "Sewer Cleaning," not later than First Post on MONDAY, the 12th June, 1965.

JOHN R. RIDING.

Town Hall.

Town Hall. Willenhall, Staffs.

### CONTRACTS

NORTH RIDING OF YORKSHIRE

BOROUGHBRIDGE BY-PASS-TRUNK ROAD, A.1.

TENDERS are invited for SUPPLYING and BUILDING RECONSTRUCTED STONE to be used in Nine New Bridges on the ABOVE BY-PASS. The Contract documents may be obtained from the COUNTY SURVEYOR. County Hall. Northallering the refunded if a bona-fide Tender is submitted or the documents are returned before the closing date. 21st JUNE. 1961.

BOROUGH OF REIGATE

FIXED-PRICE TENDERS are invited for 39 GARAGES at ARBUTUS ROAD, 11 GARAGES at ATRUTUS ROAD, 11 GARAGES at ATRUTUS ROAD, 12 GARAGES AT ATRUTUS ROAD, 13 GARAGES AT ATRUTUS ROAD, 14 GARAGES AT ATRUTUS ROAD, 15 GARAGES AT ATRUTUS ROAD, 15 GARAGES ATRUTUS ROAD, 15

Town Hall, Reigate. May, 1961.

BOROUGH OF ROMFORD.

TENDERS FOR THE SUPPLY OF NEW VEHICLES.
TENDERS are invited for the SUPPLY and
DELIVERY of the UNDERMENTIONED NEW
VEHICLES.
2 Ford Three-way Tipper Lorry (Diesel Engine).
1 Ford End-tipper Lorry (Diesel Engine).
1 Ford 15 ewt. Van.
2 ewt. Van.
3 ewt. Van.
4 ewt. Van.
2 ewt. Van.
3 ewt. Van.
4 ewt. Van.
4 ewt. Van.
4 ewt. Van.
4 ewt. Van.
5 ewt. Van.
6 ewt. Van.
7 ewt.

### OF MANCHESTER CITY

TENDERS invited for the FOLLOWING:

(a) Erection of Private Street Paviors Workshop,
College of Building, Deansgate.

(b) Alterations and Construction of an isolation
Block at Soas Mess Special School, Cheshire,
Follow Addition of the Company of

TENDERS invited for the ERECTION of the NORTHERN AREA FIRE STATION, Blackley. Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 7th JUNE.

STAINES URBAN DISTRICT COUNCIL. RECONSTRUCTION OF HITHERMOOR ROAD, STANWELL, MIDDLESEX,

TENDERS are invited for the RECONSTRUCTION of HITHERMOOR ROAD following approx. quantities: 1,600 cu. yd. Bin. Lean-Mix Concrete and 3'zim. Gravel Asphalt. 2,100 lin. yd. Precast Concrete Restb and Channel, 1,070 lin. yd. 6im. 9in. and 12in. 6s. Surface Water Sewer, 3,300 sq. yd. 2'zim. Tarpaving, and 33 Class "B" Lighting Specification. Bill. yd. Chanalitim.

sq. vc. 2-2in. Tarpaving, and 33 Class "B" Lighting Units.

Units.

Description. Bill of Quantities and Form of Tender be obtained from, and Plans inspected at, the best obtained from, and Plans inspected at, the Will be returned upon the receipt of a bose-side Tender of the Specification.

Sealed Tenders, in the envelope provided, and free from any name or mark indicating the sender, shall be received by the undersigned but later than 5 p.m.

The Council does not bind itself to accept the lowest or any Tender.

F. ENTWISTLE.

73 High Street.

73 High Street, Staines, Middx

BEESTON AND STAPLEFORD

BEESTON SEWAGE DISPOSAL WORKS EXTENSIONS

TENDERS are invited from responsible and experienced contractors for the ABOVE CONTRACT, for Extensions to the Benstum Sewage Disposal Works.

Detrius Channels and Screening Chambers.

Detrius Channels and Screening Chambers.

Alterations to existing Tanks and Filters.

Humus Tanks.

Sludge Digestion Tanks and Pumping Stations.

Sludge Drying Beds.

Site Works, Roadways, etc.

The Contract Drawlings. Specification and Bill of Contract Drawlings of the Depotence of the Council's Consulting Engineers. MESSRS. ELLIOTT AMD BROWN. Stanley House, Pelham Riada, Nottingham, on and after Wednesday. 24th May, 1961, and to the Specification and Bill of Quantities can be obtained from them on deamsill of Five Guiness (by thesein payable to the Bessinn and Stanlerford U.D.C.), which will be reduced the contractor for Bessing and Stanlerford of all documents based the contractor for Engineers to work under the Engineers should be accompanied by a list of similar work carried out, together with names and addresses at the responsible Engineers to whom reterents Engineers to whom reterents Engineers to whom reterents Engineers to whom reterents and the responsible Engineers to whom reterents an

made. Sealed Tenders, endersed "Beeston Sewage Works," e to be delivered to the undersigned not later than oon on MONDAY, 26th June, 1965. The lowest or any Tender will not necessarily be

H. D. JEFFRIES, Clerk of the Council.

SUPPLEMENT

# COUNTY BOROUGH OF

# SUPPLY OF MECHANICAL PLANT.

TENDERS are invited for the SUPPLY of the FOLLOWING MACHINES:

(b) Mechanically Operated Winches for Sewer Cleansing (two required).

Be ried Specifications of the machines required may be obtained on application by the Borough Engineer and Surveyor, Municipal Buildings, West Hartlepool. Tenders, in sealed envelopes endorsed "Vibratory Roller" of Winches, West Chairman of the Works Committee, Municipal Buildings, West Hartlepool, and received by FRIDAY, 9th june, 1961.

The Corporation does not bind itself to accept the lowest or any Tender.

ERIC J. WAGGOTT,

ERIC J. WAGGOTT,

Municipal Buildings, West Hartlepool, 12th May, 1961

### ITY OF BATH.

### EDUCATION COMMITTEE.

Contractors desirous of TENDERING for the ERECTION of the SECOND INSTALMENT of a NEW INFANT'S SCHOOL at TWERTON ESTATE, Bath, comprising three further Classrooms, Assembly and Dining Mail, Kitchen Block and Staff Rooms, with Heating Chamber, Siteworks, etc., should submit their names to the Architect, PAUL K. POPE, A.R.W.A., A.R.I.B.A. of 18 Brock Street, Bath, not later than SATURDA tions must be accompanied by a cheque for 22 2s. made payable to Bath Corporation, which will be returned on receipt of a bona-fide Tender. Bills of Quantities and Forms of Tender will be forwarded to applicants as early as possible after the above date, when instructions regarding the delivery of Tenders will be inspected at the Office of the Architect by appointment.

JARED E. DIXON, Town Clerk.

# HAVANT AND WATERLOO

TENDERS are invited for the SUPPLY OF MATERIALS for the 12 months ending 31st July, 1962, as FOLLOWS:

(4) Brooms and Brushes.

(7) Protective Clothing.
(10) Builders Materials and Ironmongery.
(14) Builders Materials and Ironmongery.
(15) Coal and Coke.
(16) Cement and Lime.
(18) Fuel and Lubricating Oils.
(20) Hand Tools.
(20) Which must bear the word "Tender, followed by the subject 16 which it relates, but shall not bear any name or mark indicating the sender, Tenders must be delivered not later than 12 Noon on SATURDAY, 10th June, 1961, to the CLERK O'THE COUNCIL, Town Hall, Havant.
The Council de not bind themselves to accept the lowest or any Tender.

# RENFLEET URBAN DISTRICT COUNCIL.

### SOUTH BENFLEET SEWERAGE-CONTRACT NO. 1. BENFLEET MARSH RISING MAIN.

BENFLEET MARSH RISING MAIN.

TENDERS are invited on a Fixed-price Basis from public works contractors experienced in similar works, for the CONSTRUCTION and MAINTENANCE of approx. 350 yd. of 12in. dia. ASBESTOS-CEMENT RISING MAIN, together with Valves and Fittings, and all other processing of the contract and Specification may be obtained on or after 24th May on application to the Council's Engineers, MESSRS, LEMON AND BLIZARD. 59 Tulton Street, Westminster, Londons Street, Westminster, Londons Street, Westminster, London Street, London Str

Council Offices, Thundersley, Essex. 19th May, 1961

# EAST DEVON WATER BOARD. CONTRACT W.14.

ENDERS are invited from experienced civil neering contractors for the FOLLOWING WORK. Construction of 500,000-gailon Reinforced Con-with ancillary work, at Rondball Hill. Construction of Surge Tank Chamber and Control House, with ancillary work, at TENDERS

Construction of Surge Tank Chamber and Construction of Surge Tank Chamber and Construction of Surge Tank Chamber and Control Mouse, with ancillary work, at Ottery St. Marv.

Copies of Tender documents and Drawings may be obtained from MESSRS. ROPE AND RAFFETY, Consulting Engineers, 9 Brewer's Green. Buckingham Gate, London, S.W.1. on the deposit of a cheque for Espard, which will be returned on receipt of a bonatide tender and the return of all Drawings to the Consulting Engineers.

Tender documents and Drawings may be inspected at the Office of the Chief Engineer to the East Devon Water Board, 46 New Street, Honiton, Devon. Board, 46 New Street, Honiton, Devon. Bender and Consulting Engineers, or at the Office of the Chief Engineer to the East Devon Water Board, 46 New Street, Honiton, Devon. Benders of Contract No. W.14." on the form provided, and accompanied by the Socification and priced Bills of Quantities, must be returned to the undersigned not later than the First Post on WEDNESDAY, 14th June, 1961.

The Contract is a fixed-price contract, and no price variation clause is included.

The Board do not undertake to accept the lowest or any Tender.

D. G. BRUCE, Cierk of the Board.

D. G. BRUCE, Clerk of the Board.

East Devon Water Board, 46 New Street, Honiton, Devon.

### CONTRACTS

### HERTFORDSHIRE COUNTY COUNCIL. CONSTRUCTION OF FOOTBRIDGE.

TENDERS are invited for the CONSTRUCTION of a FOOTBRIDGE over the RAILWAY LINE near HARPENDEN EAST STATION, alongside the road bridge which carries 8.652 (Station Road) over the

HARPENDEN EAST STATION.

bridge which carries B.652 (Station Road) over the railway.

The Footbridge will be 6ft, wide x 103ft, long in three spans. The construction consists of Steel Beams supported by Steel Trestles, with Deck Slabs of Precast Reinforced Concrete, and with Timber Parapets. The Trestles and Bridge Ends are on Mass Concrete Foundations. Various Items of work such as Fencing and Footpath Surfacing are to be carried out at the Contract documents and Drawings may be obtained from the County Surveyor, County Hall, Hertford.

Tenders are to be returned to the CLERK OF THE COUNTY COUNCIL by 10 a.m. on 15th JUNE, 1961.

The County Council does not bind itself to accept the lowest or any Tender.

# E AST RIDING OF YORKSHIRE

TENDERS are invited for the SUPPLY of 79
REFLECTORISED CLEARWAY SIGNS.
Applications for Forms of Tender should be made to the County Surveyor, County Hall, Beverley.
Tenders, in a plain sealed envelope to the provided by the Council, endorsed "Tender for Signs." and bearing no name or mark indicating the sender, are to be delivered to the undersigned not later than 4 p.m. on MONDAY, 5th June. 1961.
The Council do not bind themselves to accept the lowest are any Tenders.
THOMAS STEPHENSON.
Clerk of the County Council.

# County Hall, Beverley, 12th May, 1961. COUNTY BOROUGH OF GATESHEAD. GATESHEAD/FELLING BY-PASS.

# HOT ASPHALT SURFACING CONTRACT.

TENDERS are invited for CARRYING OUT HOT ASPHALT SURFACING on the GATESHEAD SECTION of the GATESHEAD SECTION OF the GATESHEAD SELLING BY-PASS.

Specification and Form of Tender may be obtained from the Borough Surveyor, Swinburne Street, Gateshead, 8, and sent to me by TUESDAY, 6th June, 1961.

C. D. JACKSON, Town Clerk.

# Town Hall, Gateshead, 8. SKEGNESS URBAN DISTRICT COUNCIL.

# ERECTION OF FACTORY.

TENDERS are invited for the ERECTION of a STEEL-FRAMED SINGLE-STOREY FACTORY, with Brick-built Office Accommodation, having a total floor area of approx. 13,000 sq. ft., on the Council's INFORMATION OF A STATE OF A STATE

Town Hall, Skegness, Lincs. 10th May, 1961.

# STARTFORTH RURAL DISTRICT

# BARNINGHAM SEWERAGE AND SEWAGE DISPOSAL WORKS.

BARNINGHAM SEWERAGE AND SENTAND DISPOSAL WORKS.

TENDERS are invited, on a Fixed-price Basis, for the LAYING of approx. 1,640 lin. vd. of 6in. Sewer, together with Manholes and House Connections, and the CONSTRUCTION of a SEWAGE DISPOSAL WORKS for a population of 250.

Drawings may be seen at the Council Offices, and Drawings may be seen at the Council Offices, and FAIRBANK AND SON, 29 utiline Engineers, MESSRS, FAIRBANK AND SON, 29 utiline Engineers, MESSRS, during normal office hours.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Consulting Engineers, on payment of Three Guineas (by cheque made payable to the Startforth R.D.C.), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed Tender for Barningham Sewerage Scheme, must Tender for Barningham Control of the Council Sewerage Sewerage Scheme, must Tender for Barningham Control of the Council Sewerage Sewerage Sewerage Sewerage Sewerage Scheme, must Tender for Barningham Council Sewerage S

21 Galgate, Barnard Castle, Co. Durham.

# LEEDS REGIONAL HOSPITAL BOARD. TO BUILDING CONTRACTORS.

TO BUILDING CONTRACTORS.

FIXED-PRICE TENDERS are invited for CARRYING OUT the ERECTION of a NEW BOILER HOUSE, etc., at the GENERAL MOSPITAL. Batley.
Applications for Form of Tender and Bills of Quantities, accompanied by a deposit of \$2 2s. (which will be refunded on receipt of a bona-fide Tender and other Contract documents), must be made to the Architect to the Board, at the undermentioned address, characters to the Board, and RURSDAY. 25th May. Characters than be made and RURSDAY. 25th May. Characters that have been supported by the season of the Conditions of Tender and Conditions of Contract may be inspected at the Office of MESSRS. FIRTH, SON AND BLACKBURN Chartered Architects, St. John's Chambers, Bradford Road. Cleckheaton.
Bills of Quantities will be allowed for tendering. The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE.

WM. A. SHEE, Secretary to the Board.

Park Parade. Harrogate, Yorks.

# CONTRACTS

# WARWICKSHIRE COUNTY COUNCIL ROADS COMMITTEE.

LONDON-HOLYHEAD TRUNK ROAD, A.45. MERIDEN BY-PASS-CONSTRUCTION OF

MERIDEN BY-PASS—CONSTRUCTION OF ADDITIONAL LAY-BYS.

TENDERS are invited for the CONSTRUCTION of NINE LAY-BYS 300ft. long by 12ft. wide. The mine fixed for completion is three months.

Conditions of Contract Sectional of Bill of Conditions of Contract Sectional of Bill of Conditions of Contract Section Conditions on Contract Section Conditions on Contract Section Contract Section Conditions on Contract Section C

# BRECONSHIRE COUNTY COUNCIL FOUR-STREAM SECONDARY MODERN SCHOOL

# ELECTRICAL INSTALLATION.

ELECTRICAL INSTALLATION.

TENDERS are to be invited from members of the Electrical Contractors Association (Incorporated) at members of the National Register of Electrical Installation Contractors for the purpose of PLACING Installation Contractors for the purpose of PLACING the ELECTRICAL INSTALLA General Contractor to the ELECTRICAL INSTALLA GENERAL INSTALL

unity Council.

The County Council does not bind itself to scoon
e lowest or any Tender.

C. M. S. WELLS.

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Ap CONT Store and 3 Walls Support Ap under depose a bor the 1 The lowes

County Hall, Brecon.

# COUNTY BOROUGH TENDERS FOR MACHINERY AND MOWERS.

TENDERS are invited for the SUPPLY of HAND and MOTOR MOWERS—the mowers on a partexchange basis.

Forms of Tender can be obtained from the Pars Superintendent, Burdett Road, Southend-on-Sea Superintendent, Burdett Road, Southenders Superintendent, Burdett Road, Southenders Superintendent Road, Superintendent, Superintendent ARCHIBALD GLEN.

### BOROUGH OF HIGH WYCOMBE

MAKING-UP OF FOOTPATHS AND VERGES-

LINCOLM ROAD—CRESSEX INDUSTRIAL ESTATE.

TENDERS are invited for the MAKING-UP of approx. 2,000 sq. vd. of TARMACADAM FOOT-PATH, together with approx. 2,800 sq. vd. of state of the state

J. A. PARKINSON, M.A., A.M.I.C.E. Borough Engineer and Surveyor.

# STAVELEY URBAN DISTRICT COUNCIL

TENDER FOR 80 THREE-BEDROOM HOUSES The above Council Invite TENDERS for SECONSTRUCTION of 80 THREE-BEDROOM TYPE BRICK HOUSES on their MIDDLECROFT ESTATE. BRICK MOUSES on their missesses was a stateley. Forms of Tender and other particulars must be formed to the Engineer and Surveyor. Common Offices. Lowgates, Staveley was Chesterded, on symmets of a deposit of £1 is., which will be returned if a bona-fide Tender is received not later that if a bona-fide Tender is received not later that MONDAY, the 12th June, and not subsequent

withdrawn.

The Council do not bind themselves to seared be lowest or any Tender.

HAMILTON H. STANLEY.

Clerk of the Council.

Council Offices, Lowgates, Staveley, Near Chesterfield, 12th May, 1961.

# NEW MILLS URBAN DISTRICT COUNCIL

TENDERS are invited for the SURFACE DRESHMO of approx. 20.770 sq. vd. of CARRIAGEWAY.
Form of Tender and Specification can be extended from the Council's Surveyor.
Tenders, in the envelope provided, to be resulted by the undersigned by 9 a.m. on WEDNESDAY, and S1st May, 1961.

J. BAILEY. of the Council. Town Hall, New Mills, Near Stockport.

BOROUGH OF STRATFORD-UPON-AVON. CLOPTON ROAD IMPROVEMENT SCHEME.

Municipal Offices. Stratford-upon-Ayon. 12th May, 1961.

BOROUGH OF HARROW.

TENDERS are invited for the DEMOLITION of UNDERGOUND AIR RAID SHELTERS and REINSTALL MEMORY OF PLAYING FIELDS at Byron INSTALL MEMORY OF PLAYING FIELDS at Byron Harrow Recreation Ground, Planer Memo

Secretal Park. Little Common, Pinner, and Stammore Manage.

Loaditions of Contract may be inspected at the Granditions of Contract may be inspected at the Grandition and Bill of Quantities obtained om application in the grandities obtained om application. The Road Stammore, Middlesex, on payment of the Grandities of

DAVID PRITCHARD,

CITY AND COUNTY OF NORWICH.

(a) REFUSE COLLECTION VEHICLES.
TENDERS Invited for SUPPLY of Two 30 50 cu. yd.
Continuous Loading REFUSE COLLECTION VEHICLES.
TENDERS Invited for SUPPLY of Two 30 50 cu. yd.
Ten sarticulars from the CHIEF PUBLIC HEALTH
INSPECTOR, 69 000 DAY. 29th May.
(b) WEIGHING MACHINES IN PUBLIC
CONVENIENCES.
TOWNENIENCES.
TOWNENIENCE

Contractors are notified that the advertisement in the last issue of this journal inviting Tenders for the Construction of Two Bridges over the Beeston Canal of Railway on the line of the Clifton Boulevard Calabias is CANCELLED, and an amending advertisement will supprær later.

T. J. OWEN, Town Clerk

CITY OF SHEFFIELD.

TENDERS are invited for the UNDERMENTIONED SUPPLIES to all departments of the Sheffield Corporation from July 1, 1961, viz.:—
Still Fuel and Fuel Oil.
The necessary Forms of Tender may be obtained an application to the Town Clerk, Town Hall, Sheffield, to whom completed Forms of Tender must be delivered with last than 10 a.m. on FRIDAY, 2nd unity 1961.
JOHN HYS.
The Mail

Town Hall, Sheffield, May 18th, 1961.

SEVENOAKS URBAN DISTRICT

ODEON CINEMA CAR PARK.

TENDERS are invited for CARRYING OUT the CONSTRUCTIONAL WORK in connection with the ADDR-MENTIONED CAR PARK.

OF THE CARPYING OUT the CONSTRUCTIONAL WORK in connection with the ADDR-MENTION CARPYING OUT TO CARPYING OUT TO

Council Offices. Argyle Road, Sevenoaks, Kent. May, 1961.

AYCLIFFE DEVELOPMENT CORPORATION.

CONTRACT 213-ERECTION OF SUPERMARKET.

Ablications are invited to TENDER for the ABOVE CONTRACT, which consists of the Erection of a Two-toney Supermeter Days. The Contract of the ABOVE Contract, which consists of the Erection of a Two-toney Supermeter Days. The Above Comprises Brick External Wals, Seedalist Precauter comprises Brick External Wals, Seedalist Precauter Comprises Brick External Assistances for Tender documents should reach the Medical Community of the Companies of Tender documents should reach the Medical Companies of the Companies of the Precaute Companie

A. V. WILLIAMS, General Manager.

### CONTRACTS

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the CONSTRUCTION of approx. 1,000 sq. vd. ACCESS ROAD and STANDING BAYS in CONCRETE and TARMACADAM, including Drainage and Earthworks, adjacent to FARNHAM BY-PASS (A.31). Documents, obtainable from County Engineer, returnable by 14th JUNE, 1961, in plain sealed envelopes, endorsed "Access Road, A.31, to CLERK OF THE COUNCIL, County Mail, Kingston-upon-Thames.

SURREY COUNTY COUNCIL. HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for IMPROVEMENT of RIVER WANDLE within Borough of Wimbledon, comprising Widening, Deepening and Straightening Channel, Constitution of the William Reinforced Concrete and Masonry Retail William Reinforced Concrete and Masonry Retail William Reinforced Concrete and Masonry Retail William William Reinforced Contry Engineer, County Hall (where Drawings may Be inspected), returnable by 20th IUNE, 1961, in plain sealed envelopes, endorsed "Wandle Improvement," to CLERK OF THE COUNCIL, County Hall, Kingston-upon-Thames.

WORCESTERSHIRE COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT. PAINTING OF BRIDGES.

PAINTING OF BRIDGES.

TENDERS invited from painting contractors for PAINTING the FOLLOWING BRIDGES:—
CONTRACT No. 1.—Fladbury Bridge, aver River Avon: Painting of the whole structure.
CONTRACT No. 2.—Evesham New Bridge, over Bow Brook: Upton Snodsbury Bridge, aver Bow Bridge, aver Bow Bridge, aver Bow Bridge, aver Tenbury Wells, aver River Rea. New Milli Bridge, near Shelsley Beauchamp, over River Teme: Painting of paraset fending, etc. Tender documents can be obtained from the County of State and the State Sta

W. R. SCURFIELD. Clerk of the Council.

COUNTY BOROUGH OF OLDHAM.

SURVEYOR'S AND BUILDINGS COMMITTEE.

HIGHWAYS ACT, 1959 PRIVATE STREET WORKS ADEN STREET (Vigo Street to Wilkins View).
AINSDALE CLOSE (Chamber Road to Cui-de-sac).
CARTMEL CLOSE (College Avenue to Cui-de-sac).
CEYLON STREET (Aden Street to Gibraltar Street).
COLLEGE AVENUE (Frederick Street to Heron

COLLEGE AVENUE (FREEFICK STREET)
STREET
ESTHER STREET (Clarksheld Road to Existing
Carriageway).
EVERTON ROAD (College Avenue to Chamber Road).

GAME STREET (Roundthorn Road to No. 27
Game Street).

GIBRALTAR STREET (Nos. 25 to 54 Gibraltar

GIBRALTAR STREET (Nos. 25 to 54 GIOTAITAR STREET).

HARROW AVENUE (No. 58 Harrow Avenue to Cul-de-sac). Do (No. 71 Langham Road to LANGHAM ROAD).

PRIORY CLOSE (College Avenue to Cul-de-sac).

VIGO STREET (Aden Street to Breese Hill Road).

WESTHULME AVENUE (Sheepfoot Lane to Prestbury Drive).

TENDERS are invited for the CONSTRUCTION of CARRIAGEWAYS. Footpaths. Verges. Drainage, and ancillary works in the ABOVE-MENTIONED PRIVATE

CARRIAGEWAYS, Footpaths, Verges, Drainage, and ARRIAGEWAYS, Footpaths, Verges, Drainage, and Traces, works in the ABOVE-MENTIONED PRIVATE THE General Conditions of Contract, Specification and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, 75 Union Street, Oldham, as payment of a deposit of £2 2s, which will be returned upon the receipt of a bona-fide Tender not subsequently withdrawn, and the return of all the Tender documents.

Tenders will only be considered if they are submitted in the envelope provided, sealed and delivered to the carroan of the Surveyor's and Buildings of the Contract than First Post, FRIDAY, 9th June, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender. The Contract will be subject to the Standing Orders of the Council, which include a requirement, in this case, for the provision of sureties.

EDWARD HAINES. Town Clerk

CARSHALTON URBAN DISTRICT CARSHALTON ROAD, WOODMANSTERNE.

TIPPING SITE-EARTHMOVING.

TENDERS are invited for STRIPPING approx. 5,000 cu, vd. of TOPSOIL on the ABOVE SITE and Depositing it in heap within the site, and other anciliary Earthmoving Works.

Specification, Bill of Quantities and Form of Tendermay be obtained, and Drawings and Conditions of Contract insected, at the Office of the Engineer and Surveyor, Stone Court, The Grove, Carshalton, during office hours.

Tenders, in plain sealed envelopes, and bearing mo indication as to the sender, endorsed "Earthmoving—Carshalton Road, Woodmansterne," must be submitted to the Chalirman of the Council not later than Noon in 8th JUNE, 1961.

C. H. DURRANT,

C. H. DURRANT, Clerk of the Council.

WOKING URBAN DISTRICT COUNCIL.

REPLACEMENT OF FIREPLACES.

TENDERS Invited for REPLACEMENT of 76 FIRE-PLACES with New Fireplaces and Tiled Surrounds at the Communication of the Communication of

Tenders to CLERK OF THE COUNCIL by 12 Noon THURSDAY, 15th June.

CONTRACTS

BOROUGH OF EASTLEIGH.

WOODSIDE ROAD SEWER.

WOODSIDE ROAD SEWER.

The CORPORATION invite FIXED-PRICE TENDERS from experienced public works contractors far the WTML sand MATERIALS REQUIRED in the CONCRETE SEWER, with Manboles 12 in the CONCRETE SEWER, with Manboles 12 in the CONCRETE SEWER, with Manboles 12 in the Condract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Eastleigh. Contract documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Eastleigh on payment of a deposit of two Guineas, which sum subsequently withdrawn to gether with the return of all documents supplied. Together with the return of all documents supplied. Tenders are to be sealed in the special envelope provided, and are to be delivered to the Office of the understands at or before Noon on MONDAY, 19th The Council do not bind themselves to accept the lowest or any Tender.

ROLAND J. RODDIS.

ROLAND J. RODDIS.

Town Hall, Eastleigh, Hants.
12th May, 1961.

O II G H O F L E Y T O N. BOROUGH

TENDERS are invited for the SUPPLY of UNIFORMS for Council Employees.

Forms of Tender may be obtained on application to the undersigned, and samples of cloth of existing uniforms can be inspected between the hours of 10 a.m. and S.p.m.. Mondays to Fridays only.

11 on a supply of the supply of the second envelope endorsed "Tender for Supply on the second endit of the second on MONDAY. 26th June, 1961. No name or mark indicating the sender should be shown on the outside of the envelope.

The envelope.

The Council do not bind themselves to accept the west or any Tender.

D. J. OSBORNE. Town Clerk

Town Hall, Leyton, E.10, May, 1961

BOROUGH OF SUTTON COLDFIELD. TRUNK AND COUNTY ROAD RESURFACING, 1961.

TRUNK AND COUNTY ROAD RESURFACING, 1961.

TENDERS are invited on a Schedule Rate Basis for the HEATING and PLANING and MACHINE-LAID SURFACING. BUT AND ASSESSED ASSES

J. P. HOLDEN. Council House, Sutton Coldfield.

WANSTEAD AND WOODFORD

HOUSING CONTRACTS.

HOUSING CONTRACTS.

Invitations are requested from firms who will have the necessary staff and plant available at about the dates stated to undertake the FOLLOWING CONTRACT 1—Victoria Road, E.18. 21 Flats. (August, 1961.)

CONTRACT 3—Snakes Lane, Woodford Green. Nine Flats. (September, 1961.)

CONTRACT 3—Grove Hill, E.18. 23 Flats. (September, 1961.)

CONTRACT 3—Prospect Road, Woodford Green. 1961.)

CONTRACT 3—New Wanstead, E.11. Four Flats. (January, 1962.)

Applicants are requested to submit their names by WEDNESDAY, 7th June, 1961. to L. S. IEFFERY, Borough Surveyor, Municipal Offices, High Russif, Woodford, E.18, stating for which Contract(s) they will be supported by the considered. From applications received, Quantities will be forwarded in due course.

SOMERSET EDUCATION COMMITTEE.

TENDERS are invited for the SUPPLY of Heavy Duty GAS and ELECTRIC COOKING EQUIPMENT WAFER HEATERS, POTATO PELLERS, MIXING MACHINES, etc. Details obtainable from the ChiEf EDUCATION OFFICER, County Education Office, Truil Road, Taunton, Somerset.

For Contracts received too late for classification see page 853

APPOINTMENTS VACANT

UTTOXETER URBAN DISTRICT

WATER SUPPLY.

APPOINTMENT OF CLERK OF WORKS.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the APPOINTMENT of CLERK OF WORKS to supervise the construction of two reinforced concrete reservoirs at Prestwood and soun-iron pipe water main, with other incidental works, between Rocester and Uttoxeter, under the direction of the Council's Consulting Engineers, MESSRS.
WILLCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham 3. Great Street, Birmingham 3. Great Charles Street, Birmingham 3. Great Charles Street, Birmingham 3. Great Charles Street, Birmingham 4. Great Charles Great Ch

JOHN H. KENNY, Clerk of the Council.

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Afficient Art work under the const complex of the reinfit sound ment in both Art SURV 7th

SUPPLEMENT

BOROUGH OF BECCLES. WORKS OF SEWERAGE, SEWAGE DISPOSAL AND WATER SUPPLY.

APPOINTMENT OF RESIDENT ENGINEER

APPOINTMENT OF RESIDENT ENGINEER.

The COUNCIL invite APPLICATIONS for the TEMPORARY POST of RESIDENT ENGINEER on certain works of sewerage, sewage disposal and water supply, the latter consisting of water mains extensions, 330,000 galions) espected to commerce extensions, 330,000 galions) espected to commerce during the late summer, and the works of sewezge disposal during 1962.

The successful applicant will be required to work under the direction of the Borough and Water Engineer, and under the direction of the Council's Consulting Engineers, e., H. S. WATERS AND PARTNERS, of Birmingham, in respect of the works of sewerage and sewage disposal. He will be required to take up his duties as soon as possible.

Applications, endorsed "Resident Engineer," and stating age, qualifications and experience, and giving the names and addresses of two persons (preferably Engineers) to whom reference and giving the names and addresses of two persons (preferably Engineers) to whom reference than 31st MAY, 1961.

F. W. LEAH, Town Clerk.

Municipal Offices, Beccles, Suffolk. 4th May, 1961.

# BOROUGH OF PRESTWICH. APPOINTMENT OF RESIDENT ENGINEER

APPLINIMENT OF RESIDENT ENGINEER

APPLICATIONS are invited for the TEMPORARY APPOINTMENT of RESIDENT ENGINEER on Main Driesses and Sewage Works Schemes, at a salary of \$1.105 p.a. plus a subsistence allowance of £3.10s.6d.

Applications, stating age, qualifications, experience, and date when available, along with the names of two referees, shall be delivered to the Town Clerk, Town Hall, Prestwich, not later than \$1st MAY. 1961.

The appointment is subject to man month's notice either side either directly or indirectly, disqualifies, and candidates must stale whether to their knowledge they are related to any member or senior official of the Council.

C. A. CROSS.

C. A. CROSS, Town Clerk

### CITY OF NEW SARUM.

CITY ENGINEER'S DEPARTMENT. CIVIL ENGINEERING INSPECTOR

APPLICATIONS are invited for the APPOINTMENT of CIVIL ENGINEERING INSPECTOR to assist the resident engineer in the supervision of the construction of a new sewage treatment of the construction of the constr

GEO. RICHARDSON, Town Clerk

# AMERSHAM RURAL DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ASSISTANT ENGINEER— DRAINAGE.

DRAINAGE.

APPLICATIONS are invited from suitably qualified sergurs for the ABOVE APPOINTMENT:

period of three years, with the possibility of extension, as the Council has an extensive programme envisaged. The salary will be in the range A.P.T. III/IV (£960-£1,310), according to experience. A car allowance will be paid on the National Scale up to a maximum Applicants should have a sound knowledge and experience of general municipal works, particularly as to main drainage.

The appointment subject to (a) the National Comments Superanuation Act; and (c) the termination by one month's notice in writing by either side. The Council will consider providing housing accommodation for the successful applicant, if required.

Applications, stating age., qualifications and experience, accompanied by the names and addresses of two referees, should be addressed to the undersigned to arrive but later than First Post on 29th MAY, 1961.

MAY, 1961.

H. E. BUXTON.

H. E. BUXTON. Clerk to the Council.

Elmodesham House, Council Offices, 42 High Street, Amersham, Bucks.

# BASILDON DEVELOPMENT

CHIEF ENGINEER'S DEPARTMENT.

will be eligible for the tenancy of a Corporation will be eligible for the tenancy of a Corporation by the Corporation's programme for the next five years includes many interesting projects, such as main roads, bridges, subways, main drainage, etc. The posts offer excellent design experience in this connection. Applications, giving details of age, education, Applications, experience and previous and present employment, together with the names and addresses of two (technical) referrees, should reach the General Manager, BASILDON DEVELOPMENT CORPORATION. Cilrord House, Basildon, Essex, not later than First Post on MONDAY, 29th May, 1961.

### APPOINTMENTS VACANT

CENTRAL ELECTRICITY GENERATING

MIDLANDS PROJECT GROUP

THIRD ASSISTANT ENGINEER (CIVIL).

APPLICATIONS are invited for the APPOINTMENT of THIRD ASSISTANT ENGINEER (CIVI) at Sizewell "A" Power Station, Suffolk.

Applicants should have experience in design, construction and administration of large civil engineering excavations, tunnelling, off-shore headworks, foundations, reinforced concrete and general industrial building work.

Applicants should preferably be suitably qualified. The salary will be within Grade 7, Scale 13, of the National Joint Board Agreement, I.e., £1,285-£1,610 Per Applications, should be suitably qualified.

per annum.

Applications should be made on Standard Form AE.6, available from the ADMINISTRATIVE OFFICER, Midlands Project Group, P.O. Box No. 314, Birmingham, 30, and should be forwarded to him so as to arrive not later than Sh JUNE, 196.

Perclopes should be marked "Confidential—Staff Vacancy Mo. MPG.34,61."

WEST SUSSEX COUNTY COUNCIL. COUNTY ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENT, subject to the Provisions of the Local Government Superannuation Acts, 1937/53:
Highways Planning Assistant, A.P.T. IV (£1,140-£1,310).
Applicants should be qualified Municipal Engineers with planning experience of dealing with the highway aspects of redevelopment and other highway planning priately qualified Engineers to gain further experience in town development schemes, of which there are several under way at present.
Application Forms may be County Surveyor, County Hall, Chichester, and must be returned to him by 23rd MAY, 1961.

\*\*AVEST SUSSEX COUNTY COUNCIL.\*\*

SUSSEX COUNTY

COUNTY ROADS AND BRIDGES DEPARTMENT.

COUNTY ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, all subject to the Provisions of the Local Government Superhamment (£1,140-£1,310).

(Applicants for this post, which will involve the preparation and supervision of county road major improvement schemes in an expanding road programme, must be Associate Members of the Institution of Civil Engineers and/or Institution of Municipal Engineers, and have had a sound training and extensive experience in the design and extensive experience in the first factor of the control of the control

BOROUGH OF BOROUGH SURVEYOR'S DEPARTMENT (PUBLIC WORKS SECTION).

FOROUGH SURVEYOR'S DEPARTMENT (PUBLIC WORKS SECTION).

APPLICATIONS are invited for the UNDERMENTIONED APPOINTMENTS. The Public Works Society of the UNDERMENTIONED APPOINTMENTS. The Public Works Sueversuidings cleansing, street lighting, and motor vehicle operation: Deputy Works Superintendent — A.P.T. Grade III/IV (£960-£1,310 p.a.). The person appointed, in addition to having experience of site organisation and control of men, should also have considerable experience of builders' quantities and office Works Superintendent for estimating for competitive tendering, valuations of work, cost control and final accounts, and the installation and operation of bonus schemes. The commencing salary will be within the Grade range stated above, depending on qualifications and experience.

(b) Arabic March 1 (£960-£1,160 p.a.). The person appointed must have had extensive experience in site organisation, operational planning and taking-off materials recuired for large building projects. He will be required to work under the Works Superintendent in effecting maximum supervision of works in progress and initiating naw methods of working. He must be experienced in the control of men el all trades, and have a good all-round knowledge of building trade works.

works. Chief Storekeeper—Grade Misc. VI (£760-£825 p.a.). (c) Chief Storekeeper—uraue Misk. VI tarou-£825 p.a.).

The person appointed will be responsible to the Works Superintendent for the custody, issue and replenishment of the General strades, and for maintaining stores records, etc. He should be fully experienced in stores etc. He should be fully experienced in stores Application Forms, from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., are returnable by MONDAY, 5th june, 1961.

HAROLD PARTINGTON, Town Clerk.

METROPOLITAN BOROUGH OF

APPOINTMENT OF GENERAL FOREMAN— A.P.T. GRADE III (£960-£1,140) PLUS LONDON WEIGHTING.

APPLICATIONS invited for POSITION of GENERAL FOREMAN.

FOREMAN.
Should be capable of supervising all trades, and experienced on construction of multi-storey dwellings. Five-day week. 18 working days leave. Generous sick pays scheme, etc.
Applicants should not be more than 51 years of age unless with transferable local authority service. Further details from BUILDING MANAGER, Bermondsey Borough Council, Municipal Offices, Spa Road, S.E.16.

# APPOINTMENTS VACANT

MINISTRY OF LABOUR QUANTITY SURVEYING ASSISTANTS REQUIRED by ADMIRALTY. WAR OFFICE. AIR MINISTRY.
POSTS IN LONDON, Provinces and Overseas. Salaries in Coron for Candidates with suitable exception of the Candidates with suitable exception of th

OF LABOUR

ASSISTANT QUANTITY SURVEYORS REQUIRED by MINISTRY OF EDUCATION, ADMIRALTY WAR DOFFICE, AIR MINISTRY, MINIS

BEDFORDSHIRE COUNTY COUNCIL

APPLICATIONS are invited for APPOINTMENTS in new Traffic Engineering Section of County Surveyor's Council Council

WESTERN AREA DRAINAGE SCHEME APPOINTMENT OF RESIDENT ENGINEER.

APPOINTMENT OF RESIDENT ENGINEER.

The Corporation invites APPLICATIONS from experienced persons for the APPOINTMENT of a Connection with the construction EER, required in Connection with the construction of main drainage works, comprising approximately on the construction of the const

COUNTY BOROUGH OF GRIMSBY. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

SENIOR ENGINEERING ASSISTANT.

SENIOR ENGINEERING ASSISTANT.

APPLICATIONS are invited for the APPOINTMENT of a SEMIOR ENGINEERING ASSISTANT on the permanent staff. Grade A.P.T. V. commending salars £1,310, rising to £1,480 per annum.

Five appointment is subject to the Conditions of the National Joint Council, terminable by one more than the staff of the sale, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either side, and to the provisions of the Local either to subject to the control of the provisions of the Local either to subject to the control of the Local either to the control of the control of the Local either to the control of the Local either to the control of the Local either to th

Municipal Offices, Town Hall Square, Grimsby, May, 1961.

BOROUGH OF SOUTHALL APPOINTMENT OF CLERK OF WORKS (TEMPORARY).

APPLICATIONS are invited for the ABOVE POST in the Borough Engineer's Department, for the survision of extensive road improvements by control, over a period of 18 months, at an inclusive user of E860 p.a.

Applicants must have considerable experience of road construction.

Forms of Application, obtainable from the Borough Engineer, Town Hall, Southall, must be returned to him by 3rd JUNE, 1961.

1, S. SYRET.

J. S. SYRETT, Town Clerk.

Town Clerk's Offices. South Road, Southall, Middx. HERNE BAY URBAN DISTRICT

APPOINTMENT OF ENGINEERING ASSISTANT

APPLICATIONS are invited for the APPOINTMENT of ENGINEERING ASSISTANT within A.P.T. Grade III. Applicants should have experience in rest control of the Applicants should have experience in rest control of the Applicants should have experience in rest control of the Application o

G. A. BAGNALL. Clerk of the Council.

ESSEX RIVER BOARD.

MAINTENANCE FITTERS REQUIRED II THE MAINTENANCE DEPOT, CUTON HAIL Lane, Springfield. Pay in accordance with N.J.I.C. Ser River Asserties, \$11 16s. 3d. per week.
Apply personally ser in writing to the PLANT SUPERINTEMBENT. Essex River Board Ciden Hail Lane, Springheid, Chelmistord, Essex.

# APPOINTMENTS VACANT

ADEN. PUBLIC WORKS DEPARTMENT. STRUCTURAL ENGINEER.

Qualifications: Candidates, aged 26-50, must have a investly begree, or equivalent, recognised by the investly begree, or equivalent, recognised by the investigation of Civil Engineers: or have passed, or be investigate exemption of the institution of Civil Engineers; continued to the case, at least five years' design coefficies, succeeding the safety of designs submitted. The continue of the co

emonuments in scale £1,232-£2,004 p.a. (under region), passages, Education and Children's Allowances. Free medical attention. Taxation at local rates. Apply Discovery of ReCRUITMENT, Colonial Apply Condon, S.W.1. Give full name, age, and brief of the colonial condon, S.W.1. (a) and experience. Quote etails (2) (2) (2) (2) (2) (2) (2) (2) (3) (4).

BOROUGH OF CHELTENHAM.

BOROUGH AND WATER ENGINEER'S DEPARTMENT. APPLICATIONS are invited for the FOLLOWING

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(a) Senior Water Engineering Assistant—A.P.T. Grade IV.

(b) Engineering Assistants (2)—A.P.T. Grade II.

(b) Engineering Assistants (2)—A.P.T. Grade II.

Assistants for:

(c) Water Assistants (2)—A.P.T. Grade II.

Assistants (2)—A.P.T. Grade III.

Conditions and construction:

(b) must have experience of the Institution of

F. D. LITTLEWOOD,

# COVENTRY CORPORATION.

(A) ONE SENIOR ASSISTANT ENGINEER—

(B) TWO ASSISTANT ENGINEERS—GRADE V.

(C) ONE ASSISTANT ENGINEER—GRADE III/IV.

APPLICATIONS are invited from professionally cualed Engineers for the ABOVE-NAMED POSTS in the Civil and Structural Engineering Section of the Civil and Structural Engineering Section of the Civil Engineer's Department.

An extensive, interesting and varied programme of works in hand, including large-scale flyover and welrans bridge lesign, detailing and supervision of construction all this work from inception to completion.

construction of all this work from inception to completion.

Applicants for appointments (A) and (B) should have had extensive experience in a senior capacity of the design and construction of bridges in steel, reinforced and prestressed concrete. together with a small knowledge of roadworks. Applicants for appointment (C) should have had a good general experience in bridge design and construction.

Application Forms from CITY ENGINEER AND SUNYEYOR, Council House, Coventry, returnable by 7th IUME, 1961.

# COVENTRY CORPORATION.

FOLLOWING STAFF REQUIRED in the Redevelop-ant and Improvement Section of the City Engineer's

Assistant Engineers — A.P.T. V.

(a) Senior Assistant Engineers — A.P.T. V.

(a) Senior Assistant Engineers — A.P.T. V.

(b) Senior Assistant Engineers — A.P.T. V.

(c) Senior Assistant Engineers — A.P.T. III/IV (£950-£1,310) — must have good experience of the senior Assistant Engineers — A.P.T. I to III (£645-£1,40).

(d) Senior Resident Engineer — A.P.T. III/IV (£950-£1,310):

Senior Resident Engineer (Senior Assistant Resident Engineer (Temporary)—A.P.T. III (£950-£1,140)—should be experienced in the supervision of road and sewer

Applicants for posts (a) and (b) should be Chartered Chil or Municipal Engineers.
Commencing salaries in all cases according to estilications experience. Heating accommodation may be available. Application Forms from CITY ENGINEER, Council Most, Corentry, returnable by 7th JUNE, 1961.

LEEDS REGIONAL HOSPITAL BOARD.

PROPOSED NEW GENERAL HOSPITAL AT

CLERK OF WORKS (BUILDING AND STRUCTURAL).

APPLICATIONS are invited for the APPOINTMENT of CLERN OF WORKS (Building and Structural), in contection with the construction of a new General supplied at Muddersheld (500 beds: approx. total conditions to the construction of a new General supplied at Muddersheld (500 beds: approx. total conditions to the construction of a new General supplied at Muddersheld (500 beds: approx. total conditions to the construction of the supplied at maximum of the construction of the Regional Architect. The main suit of the contract has now been running for one year, and building on the alter will continue for another three reas.

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# APPOINTMENTS VACANT

COUNTY BOROUGH OF BRIGHTON. CLERKS OF WORKS.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Surveyor's Depart-

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Borough Surveyor's Department:

(a) Clerk of Works at a salary in accordance with Misc. Grade VI (£760-£825 b.a.).

(b) Clerk of Works at a salary of £825-£875 p.a.

Applicants must have had wide experience in the supervision of reinforced concrete work and general building work, and preferably have served apprenticeship as carpenter or bricklayer.

The appointments will be subject to the Conditions. The appointments will be subject to the Conditions and the National Joint Council and to the Provisions of the National Joint Council and to the Provisions of the National Joint Council and to the Provisions of the Local Government Superannuation Acts, 1937-53.

The successful applicants will be required to pass a medical examination, and the appointments will be subject to one month's notice an either side. If the Corporation will refund 50 per cent. of the successful candidates' removal expenses.

Canvassing will disquality.

Applications should be sumit to D. J. HOWE.

Applications and the National Province of the Surveyor, Engineer and Planning Officer, 26/30 King's Road, Brighton, by Noon on FRIDAY, 26th May, 1961.

R O R O U G H O F D E A L.

### OF DEAL. BOROUGH SEWAGE PUMPING STATION SUPERINTENDENT.

APPLICATIONS are invited for TNIS POST from persons with considerable experience of electrically driven pumps and diesel alternator machinery. Salary A.P.T. II (£815-£960 p.a.).
A three-bedroom house provided at rental of £40 p.a. inclusive. 60 per cent. removal expenses refundable. Further particulars from the Borough Engineer, Municipal Offices, Deal. Apply, stating names of two referees, to me by 26th MAY, 1961.

E. BRADBURY, Town Clerk.

Deal.

PLANT MANAGER.—Contractor's Plant Manager REQUIRED to take complete charge of plant administration repair and maintenance at the main plant depot of HARBOUR AND GENERAL WORKS, LTD., in Morecambe, Lancs. A suitable candidate would be a Senior Civil Engineer with extensive site experience. The post is permanent and progressive. Applications, marked "Confidential." to Marbour and General Morks, Ltd., White Lund, Morecambe, Lancs.

General Works, Ltd., White Lund, Morecambe, Lancs.

Set Site Endinkers/Surveyors ReQuireD by civil engineering contractors based in Hull. Experienced setting-out, measuring, valuations and final accounts, and able to work with minimum supervision. Pension and life assurance scheme. Excellent prospects.—Write, giving full details in strictest confidence, 50 Box V-4139. "The Contract journal."

SITE ENGINEER REQUIRED for contracts in Lincolnshire. Experienced in setting-out, measurement, records, etc. Permanent position. — Apply THE WINTON CONSTRUCTION CO., LTD., Eastgate. records, etc WINTON C Louth, Lincs

Louth, Lincs.

SITE CASHIER.—Applications invited for the above position for vacancy in Midlands area. The position is one of much responsibility and calls for a fully experienced man previously holding similar position with national contractor an large contracts, and lists been covered by hdelity insurance. Must be reasonably mobile. Good terms and conditions inferred to suitable man. Age range about 28 to 48 years.—Apply in Clarence Street, Wolverhampton.

WANTED.—QUANTITY SURVEYOR required for rapidly expanding company in Devon and Cornwall. Excellent prospects to suitable applicant.—Write, stating age and experience, to Box V.4135, "The Contract Journal."

Contract Journal."

Engineer with site experience REQUIRED to train as Estimator with civil engineering company in West London. Excellent opportunities for experience and advancement.—Apply, with details, to JAMES MILLER AND PARTNERS, LTD., Pump Lane, Hayes, Middlesex.

### GABLE CONSTRUCTION CO., LTD.

REQUIRE for large housing contract starting June Slough, Bucks: SITE AGENT, SUB-AGENT of GENERAL FOREMAN. Applicants must be fully perlenced and have had full charge of similar controm start to finish. Living caravan on site, if require Permanent position. Pension scheme.—Apply, we full details of training, experience, etc., co

GABLE CONSTRUCTION CO., LTD., 54 Garratt Lane, S.W.18, Telephone, VANdyke 6171/2/3.

EXPERIENCED BUYER REQUIRED by civil engineering and building contractors. A head office appointment, near Reading, Berkshire. Permanent post with good salary and pension rights, etc., offered to keen and energetic man.—Write in first instance, giving details of experience, past employers, etc., and age, in confidence, to Box V.4118, "The Contract journal."

JUNIOR ENGINEER REQUIRED for Edinburgh area.

With experience in roadwork; knowledge of surfacing an advantage. Excellent prospects for sultable
candidate. Commencing salary not less than 2550.

Write, stating age and experience, to Box V.4145.

"The Contract Journals."

GENERAL FOREMAN REQUIRED for contracts in London, Sussex and Kent. Experienced in all types of contracts from \$100,000 to \$500,000. Salary \$1,200 upwards, according to experience. Pension scheme and assistance with housing after proving period. — W. LLEWELLYN AND SONS, LTD., 79 Davies Street, W.1.

Davies Street, W.1.

Davies RequireD for an expanding building and the civil engineering company with office at Bury St. Edmunds. Applicants hould be sped 35-40, well experienced in Industry and able to take off quantities in the consects and pension after probationary period. Write, giving brief particulars of aps, experience, and salary required, the flow V.4047, "The Contract Journal."

PiLING AND FOUNDATION specialists REQUIRE
a man for setting-out on sites throughout like
country. Need not be qualified, but must be consideratious and reliable, and prepared to travel frequently.
Write, giving details of experience, to Box V.4132.
"The Contract journal."

### APPOINTMENTS VACANT

WANTED immediately, ENGINEER/AGENT for sewage disposal works contract in London. Good prospects. Superannuation scheme. Car provided. Please write, stating age. experience, and salary required, to J. L. EVE CONSTRUCTION CO., LTD., 17 Hillside, Ridgway, Wimbledon, S.W.19.

STE CASHIER, fully experienced W.R.A. wages, etc., REQUIRED for civil engineering contractors, Lancashire. Good prospects and permanent position. Written applications, stating full particulars, to flow v.4140, "The Contract Journal."

V.4140. "The Contract Journal."

Senior Endinners/Sus-Acent RequireD for power station contract by major firm of civil engineering and building contractors. This is a permanent appointment, with prospects of rapid promotion to Agent, and has ample scope for further advancement thereafter for the right applicant.—Write Box H.M.526. "The Contract Journal."

### JAMES MILLER AND PARTNERS, LTD.

REQUIRE a GENERAL FOREMAN for civil engineering contracts. Unusually good opportunities are offered to a man with drive and ability capable of taking responsibility for major works. Remuneration includes bonus and a pension scheme.—If you are considering changing, write, with full details, to:

JAMES MILLER AND PARTNERS, LTD.,

A SSISTANT ENGINEER REQUIRED by major civil engineering and building contractors operating an anational scale. This permanent appointment initially for a civil engineering contract, with excellent opportunities for advancement. Good salary and comportunities for advancement. Good salary and conditions, and entry into super-super

Preteroorough.

E NGINEERISUB AGENTS REQUIRED for contracts in East Anglia. Applicants should be young, fully mobile, experienced in setting out and site works and able to assist see agent in planning and organising contracts. Site of the seed of

DLANNING AND PROGRESSING—Building and Civil Engineering Contracts. This vacancy calls for a training in the industry tu H.M.C. or L.I.O.B. standards, with a full knowledge of B. of Q. specinactions and drawings, and same site organisation, in the contracts.—Applications should state fully age and history. To WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

SENIOR ESTIMATOR REQUIRED by building contractors whose head office is near Guildford. Apolicants, who should be fully experienced, are invited to send full details of see, experience and qualifications in confidence to flox ZZ.523, "The Contract Journal."

### **BUILDING AGENT-CONTRACT MANAGER**

Substantial national building and tivil engineering contractors REQUIRE one or two men in thirty to early forties age group who could nidding contract sake the duties of Site Agent on building contracts at the order of £1m. Necessary qualifications include technical training and wide experience, a successful record, energy, good health and willingness to put candidates would be to manage, toresight. Successful candidates would be opportunities of promotion to Contract would be opportunities of promotion of Contract would be opportunities of promotion office. Commencing salary in range £1.500-£2.500, depending on the formation of the commencing salary in range £1.500-£2.500, depending on the formation of the commencing salary in range encoder target opportunities for individuals who confidence. — Please write to:

BOX V.4059. "THE CONTRACT JOURNAL."

MEARS BROS. (CONTRACTORS). LTD., Head Office, 154 Sydenham Road, 5.E.26, REQUIRE IUNIOR ENGINEERS with some experience, for site work in Southern Area. Ability to use inustruments edential. — Apply Personnel Manager at abuse

OUTSIDE SUPERVISOR REQUIRED by oid-established Midlands builders, to organise and develop
outside organisation. Contracts cover major flat,
the first of the first organise contracts cover major flat,
the first of the first organise contracts cover major flat,
the first organisation of contracts cover major flat
progressive and pensionable.—Write, stating brief
particulars of age, experience, to Box V.4126,
"ONTRACT SISPACIANCE."

CONTRACT SUPERVISOR REQUIRED by pilling specialists. Should be prepared to travel in British lales; car provided. Superannuation scheme. Guerospects for right man.—Apply JOHN GILL (CONTRACTORS), LTD., 123 Pall Mall, London, S.W.1.

S.W.1.

ARA AGENT REQUIRED to supervise a number of medium - sized contracts in East Anglica. Applicants should be experienced civil engineers, with drive and initiative, capable of controlling extranded labour force, planning and organising several contracts simultaneously.—Write, giving brief carticulars of past experience, to Box V.411, "The Contract journal."

### DESIGNER DRAUGHTSMAN

REQUIRED for civil engineering contractors' office in Newcastle upon Tyne. Must be experienced in R.C. design and interested in general civil engineering works. Salary from £900 to £1.100, according to experience. Luncheon vouchers.—Apply to:

Chief Engineer,
BRIMS AND CO., LTD.,
Pandon Buildings, Newcastle upon Tyne, 1.

GENERAL FOREMEN. TRADES FOREMEN and GANGERS REQUIRED for building and civil engineering contracts in East Anglis. Permanent, pensionable positions for suitable applicants.—Write, giving brief particulars of past experience, to Box V.4110. "The Contract journal."

SENIOR ENGINEER/AGENT REQUIRED to take charge of small and medium-size contracts in an area Sussex/Hants. Experience in control of styleral contracts collectably is the minimum experience required. Generous salary, car and pension scheme, and considerable scope for advancement in expanding organisation.—Write, giving full details of enserience, age, and salary required, to Box V.4153, "The Contract Journal."

SUPPLEMENT

WILLIAM COWLIN AND SON, LTD., REQUIRE FIRST-CLASS GENERAL FOREMAN, to be based in Bristol area. Must be capable of controlling a large building contract and co-ordinating all specialist sub-trades. Knowledge of reinforced concrete and heavy foundation work essential. Position is permanent and pensionable.—Apply, stating agm, previous experience, and salary required, to Stratton Street, Bristol, 2.

and salary required, to Straton Street, Bristol, 2.

QUIRED for site measurements, preparing interim valuations and final accounts on all classes of building and civil engineering work. Pension scheme in operation.—Write in confidence, stating aga, experience, and salary required, to General Manager, Constructional Dept., CAWOOD WHARTON AND CO., LTD., Southlands, Harrogate, Yorkshire.

Southlands, Harrogate, Yorkshire.

ASSISTANT QUARRY MANAGER REQUIRED.
Applicants should be keen, energetic men, preferably in 30 to 40 age group, with experience in all aspects of the industry, including running a modern all-electric crushing, screening and coating plant. Salary commensurate with ability. Pension scheme. Car provided, Assistance in housing—All applications (which will be treated in confidence) to the Company's Auditors, W. E. and H. R. Stacey, 6 Martin Lanc. London, E.C.4.

APPLICATIONS are invited from CIVIL ENGINEERS for an appointment in the North Staffordshire area. This is an excellent opportunity for a capable Engineer with experience of roadworks, drainage and bulk excavation contracts. Commencing salary £1,200, £1,500 p.a. Bonus and pension scheme. Car provided. Written applications in confidence, giving full details of experience, qualifications (if any), etc., to Box V.4134, "The Contract Journal."

# CONTRACTS MANAGER FOR REINFORCED PRODUCTS

REQUIRED by THERMALITE YTONG, LTD. Duties will be the supervision of the erection of reinforced units and the control of direct labour, and will include negotiating, estimating and planning. A revious experience in the erection of planning and planning

Group Personnel Manager (C.M.T.17).
JOHN LAING AND SON, LTD.,
Page Street, London, N.W.7.

SIR LINDSAY PARKINSON AND CO., LTD.,
ENGINEERS.—Due to continued expansion in our

SIR LINDSAY PARKINSON AND CO., LTD., civil engineering department, we have vacancies for the following site staff for contracts in the Middlands: TWO SENIOR ENGINEERS (Ref. LVM 4). ONE SOIL MECHANICS ENGINEER (Ref. LVM 4). ONE SOIL MECHANICS ENGINEER (Ref. LVM 4). These positions are permanent and offer good opportunities for advancement to qualified Engineers with drive and initiative, who have experience in a contractors' organisation and who understand the duties and responsibilities of these positions. Salaries and allow-superannuation scheme is in operation.—Applications in writing, giving reference number of position required, aspe. qualifications, and full particulars of previous employment to the General Manager. Civil Engineering Department. Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, St. George's Circus, CSSIII CSSIII

"STIMATOR REQUIRED with civil engineering contractors in the London area. Applicants must have had some site experience. Excellent opportunities for suitable applicant.—Write Box V.4133. "The Contract Journal."

Posineer AGENT REQUIRED for immediate appointment. To take charge of contract in Staffordshire.—Write, stating age, experience, and salary required, to Box V.4131, "The Contract journal."

FITER, skilled in Beld repairs and maintenance of Caterolilar equipment. Permanent situation with good salary and pension scheme for a good, energetic man. — Write full particulars of experience and training to Box V.4128. "The Contract Journal."

BUYING ASSISTANT REQUIRED aped 18,20.
Experience of 8.0.Q.s essential, and of buying or quantity surreying prefer bid. Exelection concrusions. The contract contract contract to the contract contract to the contract contract

# D. T. BULLOCK AND CO., LTD.

Beek is appoint an AGENT ENGINEER. This progressive firm of contractors with a sound record of expansion requires an enthusiastic and able man to take charge of small and medium-sized civil engineering and building contracts in the contracts of the contract of the

D. T. BULLOCK AND CO., LTD.,

CIVIL ENGINEERS REQUIRED. Some contracting experience an advantage.—Write, giving details, in first instance to McLAUGHLAN (KNOTTINGLEY), LTD., Hill Top, Knottingley, Yorks.

CONSULTING ENGINEERS REQUIRE experienced RESIDENT ENGINEER to supervise a main drain-depointment 12 months, wirea. Approx duration appointment 12 months, wirea. Approx duration appointment 12 months, wirea. Approx and must have had at least seven years experience in site supervision under the direction of Consulting Engineers or Local Authorities, inclusive salary and subsistence in the range £1.200 to £1.500 p.a., according to experience.—Applications, stating full details of sage, experience, etc., to SiR HERBERT MUMPHRIES AND Edglasston, Birmingham, 16.

TECHNICAL STOREKEEPERS. Two or three experienced men REQUIRED immediately. Knowledge of "Karden" stock control, earthmoving spares, and general stores procedure an advantage. Good salary and prospects.—Write Box V.4186. "The Contract

### APPOINTMENTS VACANT

CIVIL ENGINEERING contractors REQUIRE ASSIST-ANT CONTRACTS SUPERVISOR, to be based on Rickmansworth area.—Full details of experience to CAFFIN AND CO., Maple Cross, Rickmansworth.

ESTIMATING CLERK for general builder. All types new work, alterations, etc. Permanent and progressive post.—ERIC M. TAYLOR, LTD., High Street, Ongar, Essex.

Ongar, Essex.

Cenior QUANTITY SURVEYOR REQUIRED by well-known medium Manchester building and civil engineering contractors. Estimating knowledge useful but not essential. Age 30-50. Applicants should be capable of dealing with contracts from £20,000 to £400,000. Responsible only to Managing Director. Man already acting as Surveyor/Contracts Manager with housing if desired. Salary policy of the policy of

# SUB-AGENTS and SITE ENGINEERS

Are REQUIRED by civil engineering contractors operating in Northumberland and Durham. Minimum two years' site experience, but preferably able to take charge of medium-sized contracts now or after a period of training. Salary from £800-£1,200, according to experience, plus car allowance.—Apply:

Chief Engineer.
BRIMS AND CO., LTD.,
Pandon Buildings, Newcastle upon Tyne, 1.

GEMERAL FOREMAN—Severn Bridge. Applications are invited for the position of General Foreman on this contract. Applicants must have experience in heavy mainer foundation construction, and have neid as mainer of the construction of the contract of the cont

Severn Suspension
Monmouthshire.

COST AND BONUS CLERKS REQUIRED for civil
engineering contracts in all areas. R.C. experience
necessary; measuring an advantage.—Apply, with full
details, to Personnel Officer, M. J. GLESON
(CONTRACTORS), LTD., Haredon House, London
Road, North Cheam, Surrey. (Ref. 008.)

SITE ENGINEERS, preferably qualified, REQUIRED
for civil engineering projects in all areas.—Send
full details to Personnel Officer, M. J. GLESON
(CONTRACTORS), LTD., Haredon House, London Rd.,
North Cheam, Surrey. (Ref. 006.)

FITTERS REQUIRED for maintenance and overhaul of contractors' plant.—Experienced men only need apply to LINK PLANT, Bury Street, Ruislip. Tel. 3344.

### ESTIMATORS

REQUIRED for civil engineering contractors' head office in Newcastle. Must be capable of pricing bills of quantities and preparing tenders for civil engineering contracts. Salary from EBDO to £1,200 p.a., according to experience. Luncheon vouchers.—Apply, in confidence, to:

Office Manager, BRIMS AND CO., LTD., Pardon Buildings, Newcastle upon Tyne, 1.

PLANNING ASSISTANT REQUIRED for head office of civil engineering contractors engaged on road-sorter more defaulage and sewage disposal and water supply contractors are supply contractors. The supply contractors are supply contractors and several supply contractors are supply contractors. The supply contractors are supply contractors are supply contractors. Applicants should have good basic civil engineering training and at least three years' site experience. Permanent post, with prospects, pension scheme.—Write, stating age, salary, and details of training and experience, to Box V-4151, "The Contract Journal."

V.4151. "The Contract Journal."

FIRST-CLASS AGENT REQUIRED, with wide experience in reinforced concrete and civil engineering work. Top salary for the right man.—Write, stating age, experience, salary required, with copies of references, to Building Contracts Manager, H. C. JANES, LTD., 183 High Town Road, Luton.

ETD., 183 Migh Town Road, Luton.

EXPERIENCED SITE ENGINEER REQUIRED by civil engineering contractors, for roadworks, main drainage and sewage disposal contracts, Southern Counties. The position is permanent, with pension scheme, carrying a substantial salary, and offers exceptional prospects of advancement to higher grades exceptional prospects of advancement to higher grades stating age, full details of experience, and past employers, together with salary required, to Box V.4152, "The Contract Journal."

# FOREMEN

TROLLOPE AND COLLS, LTD., have vacancies in their reinforced concrete department for experienced FOREMEN. Permanent posts are offered to the right men, with good salaries and considerable future prospects.—Applications, giving fullest particulars of past experience, should be addressed to:

CIVIL ENGINEERS for everseas contract.—ASSIST-ANT and SENIOR CIVIL ENGINEERS REQUIRED for large civil engineering contract overseas. Sound experience with contractors, either at home or abroad, is an indispensable qualification. Applications should state experience in full, with names of previous entered of the contract of the contract proportunities for the right macried. Excellent opportunities for the right macried. Excellent opportunities for the first macried. Contract journal."

EXCAVATOR DRIVER with crane and backacter experience REQUIRED for long-term contract at St. Albans.—Write, stating age and experience, to Box V.4155, "The Contract Journal."

Box V.4155. "The Contract Journal."

SPECIALIST REPRESENTATIVES. — Vacancies exist in London and Birmingham for two Specialist Representatives to promote the sale of a new type of concrete anchor being imported from the U.S.A. Knowledge of concrete construction is essential, together with the ability to carry out effective demonstrations. The positions offer great scope for advancement in an expanding company. Salary commensurate with experience, and successful applicant will be admitted to the group pension scheme. Car provided, or generous allowance if car owner.—Appliprector, GREENHAM TOOL. CO., LTD., 618 London Road, Isleworth, Middlesex.

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A GENTS and GENERAL FOREMEN REQUIRED to civil engineering and R.C. contracts in some good prospects to men of experience and initiative. Applications to Personnel Officer. A fail initiative. (CONTRACTORS), LTD., Haredon Mines, London Road, North Cheam, Surrey. (Ref. 007.)

Road, North Cheam, Surrey. (Ref. 007.)

MARTIN COWLEY, LTD.— Stevenage Break
ORDER CLERK AND CHECKER REQUIRED to
the above project. Experience on civil engineering
contracts required. Good salary offered.—Apply, single
full details. to Martin Cowley, Ltd., Gipsy Lee,
Knebworth. Heerts.

Country.—Apply. stating age, experience, sian required, to AMALGAMATED APPRIATE COMPANIES, LTD., Pear Tree Wharf, Horn Lise Greenwich, London, S.E.10.

Greenwich, London, S.E.10. What, Norn Lise, STE CASHIERS REQUIRED. Experience building and civil engineering contracts—one for Cashiery and other reliefs. Staff pension scheme available, smith entire the staff of the staff of

Sheffield, 11.

FIELD SERVICE ENGINEERS REQUIRED, preferably experienced in earthmoving equipment.—For experienced in earthmoving equipment in the details, telephone FELtham 3471.

further details, telephone FELtham 3471.

NIGERIA. — ASSISTANT CIVIL ENGINEER REQUIRED for road and general civil engineering contracts in Nigeria. Three or four years lite expension of the properties of the Section of the Properties of the Section of the Properties of the Section of the Properties of the Propertie

# TROLLOPE AND COLLS, LTD.

Invite applications for BONUS SURVEYORS his experienced in the measurement and presented of bonus and cost returns.— Applications, giving particulars of qualifications, experience and sales required, should be sent to:

The Assistant Secretary,
TROLLOPE AND COLLS, LTD.,
1 Noble Street, Gresham Street, London, E.C.2.

SIR LINDSAY PARKINSON AND CO., LID. REQUIRE an experienced SENIOR DRAUGHTS MAN in their London teacement of the propagation of programme and detail reasts on the preparation of programme and detail reasts of temporary works for civil engineering possible statement of the program of the propagation of programme and detail reasts of temporary works for civil engineering possible state accurate draughtsman. The appointment is permanel accurrying an attractive salary, and is pensionable after a probationary period.—Write full particulars to the propagation of th

London, S.E.1.

TARM MECHANIC for large arable farm, Must be first-class gas and electric welder, convenie with all modern machinery. New house in village five miles Cambridge.—T. B., ROBINSON, Lolmont Grange, Cambridge. "Phone: Madingley 274.

YOUNG MAN REQUIRED urgently 20-25 THE STIMATOR/SURVEYOR, wait and floor titing sub-contract department. Also MALE JUNIOG EXERCEQUIRED. Excellent prospects. Superannation scheme.—Write Manager, HALL AND CO., LTD. Great West Road, Brentford, Middlesex.

Great West Road, Brentford, Middlesex.

TAYLOR WOODROW CONSTRUCTION, LTD. REQUIRE for building and civil engineering line
experienced WAGES CLERKS, TIMEKEPERS and
ACKARS. Mobile and willing to work hard in
advancement. Good salary; pension scheme. Interview
arranged at any time, including early evening
sarranged at any time, including carry evening
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sarranged at any time; including carry evening
sarranged at any time; including details of exerence, etc., to Personnel Manager, 345 Ruisile Roal,
Southall, Middlesex. Tel.; Waxiow 2366.

Southall, Middlesex. Tel.: Waxlow 2366.

DLANT MANAGER.—WILSON LOVATT AND 50K.

LTD., invite applications for the position of
London PLANT MANAGER. Candidates should be
30-45 years of age, keen and energetic, with adminitrative ability and a practical background in all types
of mechanical plant connected with civil egipenic
and building contracts. This is a permanent, pension
able position, and a car will be provided.—Applications, which will be treated in strict confidence, should
be addressed to the Plant Manager. London Plant
Depot, Coronation Road, Park Royal, London, N.W.10.

# TROLLOPE AND COLLS, LTD.

REQUIRE the services of experienced QUANTITY SURVEYORS for large building contracts in the Lambara. Must have sound knowledge of site measures, valuations, final account preparation, etc.—agnit, stating age, experience and salary required, to

The Assistant Secretary (Ref. S.).
TROLLOPE AND COLLS, LTD.,
Noble Street, Gresham Street, London, E.C.2.

SENIOR LAYOUT AND SURVEYING ASSISTANT REQUIRED for estates development, which licities shop and flat schemes throughout the country. Agricant should be competent draughtsman with conduction of layouts, lettered working good prospects. Salary £1,000 Hollows hosourist country and conductive country of the c

OENERAL FOREMAN REQUIRED. Good prospects
Superannuation. Transport provided. Must be
experienced in reinforced concrete and building ust.
Please appearance of the stating age, experience, so
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sistent appearance of the stating age.

27 Hillside, Ridgway, Wimbledon, S.W.19.

PRECAST CONCRETE ESTIMATING. DOW.MA.

(PRODUCTS). LTD.. REQUIRE ESTIMATING SET STIMATING AND SET STIMATING AND SET STIMATING AND SET STIMATING ASSISTANTS for precast an experience of the industry. Progressive position in sections of the industry. Removal and set on experience applications in writing to Taching Director, Dow-Mac (Products), Ltd., Tallington, Support

JUNIOR ENGINEER with good soil mechanics particle ence REQUIRED by firm of civil engineers construction in East Africa extensive one construction programme. Getains of past expensive or the construction programme. Getains of past expensive for Box V-4181. "The Contract Journal."

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A scaland, comprising tunnelling, underground open station, aqueducts, underground representations of the station according to the station of the station of

Bos V.4175, "The Contract Journal,"

JUSTALIA.—JUNIOR ENGINEERS REQUIRED by Astrills. Assistance with passagement works in Astralia. Assistance with passagement men. Interviews sairies will be paid offon, but applicants should see all relevant details by air mail, in the first instance of the contract of the contract

### ENGINEER

REQUIRED. Firm engaged in sub-contracting work a be civil engineering field requires an ENGINEER of the contraction of the co

Personnel Manager.
MILLARS' MACHINERY CO., LTD

revis GREENHAM GROUP.—ENGINEER. Vacancy for Ingineer to be engaged in all aspects of sand and gravel production, plant maintenance and development. The man we require should have had an engagering training metallic plants of the same considerably in the same considerably in the same for advancement public commensurate with qualifications.—Reply. Same brief details of experience, to GREENHAM SAND AND BALLAST CO., LTD., Chertsey Road, felham, Middlesex.

ARGE civil engineering project REQUIRES SENIOR of driving and an argument of the driving and argument of the driving and argument of the driving argum

"The Contract Journal"

EXPERIENCED BUILDING FOREMAN REQUIRED.
Willing to travel in Midland and North Midland
ura: Wage offered £17 10s. o£2.0 weekly plus
substitence when away. GarOpportunity for keen man.—Write full details age,
saperience, etc., to Box V.4189, "The Contract

# WILLIAM COWLIN AND SON, LTD.

REQUIRE first-class GENERAL FOREMAN, to be based in Bristol area. Must be capable of controlling i user building contract and co-ordinating all specialis use-trades. Knowledge of reinforced concrete an insum foundation work essential. Position is permanent and pensionable.—Apply. stating age, previous exemined and salary required, to:

WILLIAM COWLIN AND SON, LTD., Stratton Street, Bristol, 2.

COST CLERKS REQUIRED by RICHARD COSTAIN.

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A. G. MARRISON. th June, 1961.

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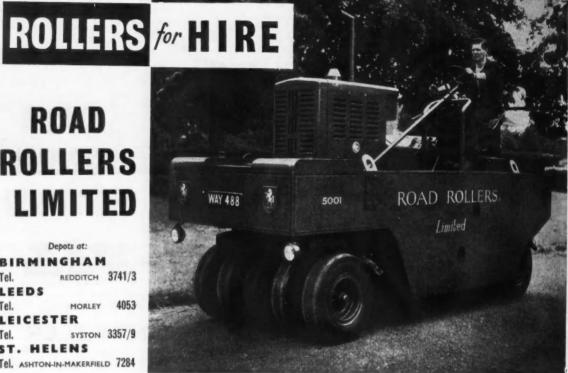
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(B) GENERAL FOREMAN (CIVIL ENGINEERING),
(C) MEASURING AND BONUS CLERK, £645-£815 P.A.

APPLICATIONS are invited for the ABOVE POSTS for road and sewer contract of £100,000 in value. Consider must have had experience in a similar consider the property of the pro

G. S. McINTIRE.

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The CORPORATION Invite TENDERS from public morts contractors for the REINSTATEMENT of REINSTATEME

Town Hall.
The Parade.
Epsom. Way, 1961.

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TO PUBLIC WORKS CONTRACTORS.

The PUBLIC WORKS COMMITTEE Invite TENDERS a Fixed-price Basis for a Measure and Value office for the RECONSTRUCTION of ST. GEORGE'S RET. Newtown Redevelopment Area Units 105

The PUBLIC WORKS
of a Fixed price Basis for a Mean ST. GEURNA
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Coales of the Specifications, Bills of Quantities and Forms of Tender may be obtained on payment of 22 to 3 the Office of SIR HERBERT I. MARK Civic Ciry Ingineer and Surveyor. Baske Baste ST. MARK Civic Centre, Birmingham, be deposit will be returned on the most of the St. Civic Centre, Birmingham, ed deposit will be returned on the most of the St. Civic Centre, Birmingham, ed deposit will be returned on the most of the St. Civic Centre, Birmingham, the deposit will be returned on the Work Company of the Work Civic Centre, Birmingham, the work of the St. Civic Centre, Birmingham, i. natt jater than 12 Noonit WEDNES-DAY. 7th June, 1961. The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON, Town Clerk.

WORTLEY RURAL DISTRICT COUNCIL.

RECONSTRUCTION OF MILES ROAD, HIGH GREEN.

RECONSTRUCTION OF MILES ROAD, HIGH GREEN.
TENDERS are invited for the RECONSTRUCTION of THIS ROAD (length 270yd, approximately), including kerbing, Resurfacing of Carriageway and Coutbaths, and Front Boundary Walls, Steps, and Tender documents may be obtained from MR. ARTHUR WIKELEY, M.I.Mun.E., M.I.Insun.E., M.I.Insun.E.,

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Duties include supervision of a number of site substraints and the supervision of a number of site laboratories and technicians, and the interpretation of results. Salary to £1,500 p.a. depending on superince.—Apply for the control of the

ISLINGTON BOROUGH COUNCIL.

OFFERS Invited for SALE of the UNDER-MENTIONED SURPLUS VEHICLES AND PLANT: 4 Fordson Tipper Trucks. 2 French Rammers. 2 Trench Rammers. 1 12cwt. Crane. Tender documents, which are returnable by Noon or TUESDAY, 20th June. 1961, and permit to view available from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Upper Street, Islington, N.1. RAMSEY URBAN DISTRICT COUNCIL

WATER SUPPLY TO HOLLOW LANE AND BENWICK ROAD.

TENDERS are invited from suitably experienced contractors for the LAYING and JOINTING of approximation of the contractors for the LAYING and JOINTING of approximation of the contractors of the contractor

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Council Offices, Bury Road, Ramsey, Huntingdon

ISLE OF MAN HARBOUR BOARD. WAITING HALL AT DOUGLAS HARBOUR,

The Isle of Man Harbour Board invites TENDERS for the ERECTION of a WAITING HALL (which will form part of new pasenger reception buildings to be erected at Douglas Harbour) and for DEMOLITIONS in connection with the EXISTING BUILDINGS.

Bills of Quantities may be obtained from, and Conditions of Contract and Plans inspected at, the Office of the Architects, MESSRS, DAVIDSON, Athol Street, Douglas, on or after 12 Noon on Monday, 8th May, 1961, A deposit of £2 Zs. will be required, which will be returned on receipt of a bona-fide Tender.

Tenders, the selection of the prescribed Tender Form and, accompanied by details of similar work carried out by the tenderer, are to be delivered to the undersigned not later than 2.30 p.m. on MONDAY, 5th June, 1961.

or any Tender.

G. R. KERRUISH. G. R. KERRUISH. Secretary.

Isle of Man Harbour Board, G.P.O. Box 11, Murray House, Douglas, I.o.M. 2nd May, 1961.

EBBW VALE URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENT AND

ARCHITECTURAL ASSISTANTS (TWO), GRADES III-IV (£960-£1.310), CHIEF ASSISTANT ENGINEER, GRADE IV (£1,140-£1.310), ASSISTANT ENGINEER (TEMPORARY), GRADE IV (£1,140-£1.310),

APPLICATIONS are invited for the ABOVE APPOINTMENTS in the separate Engineer's and Architect's Departments of the Council.

For Architectural Assistants, applicants should be at least intermediate R.I.B.A. Standard, and for Grade IV should be corporate members of the R.I.B.A. For Engineering Assistants, candidates must be corporate for the Council of the Council o

facilities, ment Superannuation ment Superannuation will be made available, modation will be made available, modation will be made available, modation will be required to passuccessful candidates will be required to passuccessful available by one month's notice in writing on either side.

Applications (for which no forms are issued) should be appropriately endorsed and accompanied with the usual information and giving names of two referees, must be received by the undersigned not later than Moon on WEDNESS WEDNESS IN WILLIAMS.

HOWARD I. WILLIAMS.

Clerk of the Council.

District Council Offices, The Walk, Ebbw Vale, Mon. 15th May, 1961.

GENERAL FOREMAN urgently REQUIRED for airfield construction. Essex. Some experience in
operation of soil stabilisation plant an advantage.
Aooly, quoting Ref. GF.CJ, to Director, HENRY
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One Excavator, I.C.B. or similar type.
Two 5.6 tons S.W.B. Tipper Bedford Lorries with Diesel Engines.
Three 5.13°2 Concrete Mixers, Diesel Engines.
One Pordson Major Tractor. Diesel, with Hydraulic One Diesel Compressor (250 c.f.m.), with Hoses and Tools.
One Cement Gun, Water Pump and Cement Injector.

OFFERS are also invited for a 1953 Morris Minor CAR. Registration No. FF9118, which may be inspected at the County Council's Ambulance Depot, Arran Road, Doigellau.

Tenders, accompanied by the makers' specifications and other details, enclosed in a plain sealed envelope, endorsed "Tender for Plant," should reach the COUNTY CLERK, County Offices, Penariap, Dolgellau, by not later than MoMDAY, the 5th June. 1961.

COUNTY BOROUGH OF BOLTON.

FIXED-PRICE TENDERS are invited for the PAINT-ING Of HEATON BRIDGE, BEAUMONT ROAD, Botton. Form of Tender and Specification obtainable from BOROUGH ENGINEER, Town Half, Botton, to whom the Tender must be returned by 10 a.m., MONDAY, St june, 1961.

BOROUGH OF DAGENHAM

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KEITH LAUDER. Town Clerk.

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(1) Forced Draught Tower Aerator.

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Full details of the Chemical Dosing Plant.

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EXPERIENCED SUILDING / CIVIL ENGINEERING ESTIMATOR REQUIRED by major firm of engineering contractors for Edinburgh branch office. Write Box No. 824, Keith and Co., 137 Princes Street, Edinburgh.

Street, Edinburgh.

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WANTED. Experienced WORKING FOREMAN/
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Easton, Portland, Dorset.

Easton, Portland, Dorset.

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May, 1961.

GENERAL FOREMAN, N.E. Cheshire area, for large sewering contract. Experience on deep sewers and headings essential. Position permanent and pensionable: profit-sharing schemen-repeation. — Apply. SONS (CLUY ENGINEERING), LTD., Banner Cross Hall, Sheffield, 11.

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### THE

# CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

# THE CONTRACT JOURNAL

incorporating
THE BRITISH CONSTRUCTIONAL ENGINEER

THE CONTRACTOR
Established 1879

No. 4,273 Vol. CLXXXI May 18, 1961

Editor: LAWRENCE McCARTHY

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# Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

# THE PROFESSIONAL ENGINEER'S PLACE IN SOCIETY

THE lack of recognition afforded the professional engineer in public life has been raised by leaders of the profession on a number of occasions in recent years. In his presidential address given in the latter part of last year, the President of the Institution of Civil Engineers, Sir Herbert J. Manzoni, said it was doubtful if an ordinary member of the public could even say what a civil engineer did, and well informed members could hardly name one, yet alone three.

The President of the Institution of Structural Engineers, Lt.-Col. G. W. Kirkland, also referred to this subject recently, pointing out that the status of the professional engineer in all fields of public life is nothing like as high as it should be.

Where does the fault lie? In Sir Herbert Manzoni's view, as a profession they have become immersed in the minutiae of schemes conceived by other people and have forgotten how, or have had no time or have lost inclination, to take the lead, so far as this is possible in modern conditions, in promoting ideas and projects of their own conceiving. The President of the Institution of Structural Engineers also believes the failure to be the professional engineers' own fault, partly through absorption in their own subjects and through the scatter effects of the large numbers of bodies which represent them.

The difficulty is that today the professional engineer has to work under conditions vastly different to the days of Telford and Brunel—conditions in which individuality of thought and action, and personal responsibility are diminishing. Nevertheless, the pioneering spirit is not altogether dead and there are engineers of considerable stature and individual drive in this country today as there are in the United States and Europe. But their achievements are comparatively unknown, not only nationally, but often within the field of their own particular activities. For this state of affairs the senior institutions must take a large share of the responsibility. For a great number of years they considered it "not quite done" to publicise the achievements of their members, many of whom feared that any form of personal publicity would be considered to offend against the code of conduct. One might well wonder whether the name of say, Nervi, would have been as well known today had he been a member of a British institution practising in this country.

Happily, in recent years "the wind of change" has percolated, if not blown through, the councils of the institutions and probably more for economic reasons than any other, steps have been taken to make known the work and achievements of their members both in this country and overseas. But more could still be done without harming professional ethics.

Lt.-Col. Kirkland has suggested that there should be an organisation to represent all chartered engineers to ensure their proper representation in the councils of the world. This did not call for the formation of yet another engineering body; the "mother"—the Institution of Civil Engineers—should encourage her varied offspring and admit their spokesmen to her Council on the basis of proportional representation.

This suggestion has no doubt been looked upon as heresy by some engineers in Great George Street but the majority of far seeing engineers, while not perhaps being prepared to go as far as the Structurals' President has suggested, would welcome closer co-operation between the institutions.

There is already a degree of co-operation between the three senior institutions—the Civils, Mechanicals and Electricals—but it has always appeared incongruous that the Structurals, who are the sole professional body representing engineers in the specialised field of structures throughout the world, should have been considered beyond the "pale", by the three senior bodies, particularly as they are all closely linked in their everyday activities.

In this age of the scientist and the astronaut, the professional engineer is bound to suffer a continuing loss of recognition and influence if outmoded policies persist. The principal professional institutions should set up a joint committee to investigate what steps can be taken jointly and separately to see that the professional engineer is accorded his rightful place in society.

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# CIVIL ENGINEERING CONTRACTING

# Federation's Annual Report

THE amount of new work for the conbecome more plentiful in 1960, states the annual report of the Federation of Civil Engineering Contractors. Apart from a continued increase in housing there was a considerable increase in other new work for private developers. The amount of other new work for the public authorities, however, decreased marginally.

### Smaller Sized Contracts

The Federation and its sections have through the national consultative council and the regional committees of the Ministry of Works, kept the shortage of the smaller type of civil engineering jobs before the Government.

During the year a special ad hoc committee of the Federation was formed to study the problem. It was found that in general more invitations to tender for the smaller type of local authority contract were being issued. The shortage in some sections, however, continued to be serious.

Present trends indicate that the position is easing, continues the report. The increase in authorisations for water and sewage schemes has continued during 1960, and the continued boom in private enterprise housing, with the increase in industrial construction, will create yet further demands. In addition, the enlarged road programme will provide more work over the whole range of jobs.

The interest rates charged to local authorities are unlikely, in modern conditions, to be much diminished, and an increasing number of local authorities might therefore be expected to proceed with schemes which were being delayed in the hope of the rates being lowered.

Delivery periods for reinforcing rods continued during 1960 to be lengthy. The results of a survey carried out by the Federation in November indicated, however, that this fact was not causing undue difficulties for the industry.

The committee on steel supplies of the

The committee on steel supplies of the Reinforced Concrete Association (of which Reinforced Concrete Association (of which the Federation is a member) has estimated that demand for reinforcement is likely to increase to 800,000 tons in 1965. This compares with deliveries of approximately 600,000 tons during 1960. This estimate has been communicated to the British Iron and Steel Federation and to the Iron and Steel

Some difficulty continued to be perienced during the year over the supply of bricks and regional shortages of cement experienced which proved to be of a temporary nature.

### Plant

The Federation was consulted by the Federation of Manufacturers of Construction Equipment as to the best basis for the classification of tractors. The Federation advised that the criterion should be installed horse-power.

The British Standards Institution invited The British Standards Institution invited the co-operation of the Federation in the preparation of a British Standard prescribing a means of assessing the performance of batch-type concrete mixers. After consideration, the Council agreed to co-operate by inviting some members to carry out the prescribed tests on an experimental basis.

# Civil Engineering Research Council

The Institution of Civil Engineers is in process of setting up a Civil Engineering Research Council to initiate, control and finance research, and to arrange for the publication and dissemination of results.

The Council will consist of the President of the Institution, as the chairman, three other representatives of the Institution, three from the Association of Consulting Engineers and three from the Federation, together with the Permanent Secretary of the Department of Scientific and Industrial

Some initial finance has been guaranteed by individual contractors and by firms of consulting engineers, but further funds will be necessary.

will be necessary.

During the year the Council of the Federation reviewed the existing facilities for research and concluded that there was a need for closer co-operation between contractors and the research establishments. A standing committee on research under the chairmanship of Mr. R. M. Douglas was therefore formed to seek this closer co-operation and to assist in the dissemination of information about research. research and to assist in the dissemination of information about research. This committee has undertaken a study of the existing research programme and has had the opportunity of inspecting the facilities at the Building Research Station and the Road Research Laboratory.

One of the committee's main tasks in the future will be to maintain the closest possible liaison with the projected Civil Engineering Research Council.

### Industrial Relations

The Council of the Federation is again pleased to record that the work of the conciliation board has proceeded smoothly during the year and that cordial relations have continued between the employers' and the operatives' panel of the board. states the report.

# Scholarship Trust

The Civil Engineering Scholarship Trust, set up in May, 1958, under the sponsorship of the Institution of Civil Engineers, the Association of Consulting Engineers and the Federation, has continued to be particularly well supported by members of the Federation in the past year, over 80 per cent. of the money received by the Trust in answer to its appeal for funds having come from this source. To date, 26 members, by undertaking to pay at least £400 annually for seven years, have individually given named scholarships. In addition, the members of the South Wales and Monmouth Section have collectively given a named scholarship.

For the academic year commencing in October, 1960, the Trust awarded 18 scholarships, the value of the scholarships varying from £450 per annum to £300 per varying from 2450 per annum to 2300 per annum according to the financial needs of the particular boys. The successful candi-dates were selected from 137 applicants on grounds of academic ability and those qualities of character, leadership and determination which are essential to make

a good civil engineer.

The Trust hopes to award up to 20 scholarships for the coming academic year, provided that sufficient worthy candidates come forward.

### Training of Maintenance Mechanics

Referring to the training of maintenance mechanics the report states:

The conciliation Board has approved the adoption, with effect from March 27, 1961, of a scheme for the training of maintenance mechanics which provides for a simplified syllabus of training over a three-year term with the object of producing a mechanic capable of undertaking preventative maintenance on site.

preventative maintenance on site.

The increased mechanisation of the industry means that the training of contractors' plant mechanics and maintenance mechanics is of primary importance. Accordingly, members are urged to in-creased their intake of trainee contractors' plant mechanics and where resources do not permit of the operation of the five-year scheme it is hoped that the new three-year scheme will be adopted.

However, it is considered preferable for members not to operate both schemes, but rather they should choose the most suitable scheme having regard to the facilities available. able. Where practicable, preference should be given to the existing five-year scheme.

scheme.

A pamphlet containing details of the scheme for the training of maintenance mechanics is in course of print. The Board will maintain a separate register of traines under the maintenance mechanics scheme but the procedure for registration, assignment or cancellation will be the same as applies at present under the five-year scheme.

# Training of Technical Assistants

It was stated in the last annual report at it had been suggested that there was that it had been suggested that there was a need in the industry for young men, who, though not possessing the ability to qualify as engineers at professional level, could nevertheless carry out supervisory respon-sibilities on the more routine type of civil engineering contract.

The Federation has been investigating the possibilities of establishing a scheme for training this type of young man and a three-year course of training has been drawn up and approved in principle by the Council the Council.

The proposed scheme has been discussed with the Institution of Civil Engineers and the Association of Consulting Engineers, who are broadly in agreement with the Federation's proposals.

The matter is now under discussion be-tween the Institution, the Federation and the Ministry of Education.

# Contract Matter

During the past year, the Federation has continued to pursue its policy of endeavouring to secure the widest possible adoption of the I.C.E. Conditions of Contract, states the report.

The last annual inquiry on the adoption of the I.C.E. Conditions made in May, 1960, revealed that the number of local authorities in England, Scotland and Wales using the I.C.E. Conditions had continu to increase

In addition, of course, such prominent employing authorities as the Ministry of Transport, the British Transport Com-

rransport, the British Transport Commission, the London County Council and the Metropolitan Water Board, as well as most firms of consulting engineers and many private industrial concerns also us the I.C.E. Conditions.

The position has now been reached where nearly all the local authorities of importance, with certain prominent exceptions, are using the I.C.E. Conditions. At the same time there appears to be a growing practice on the part of employing authorities to include in their specifications provisions which conflict with the general conditions, and it is considered that the only practical way of dealing with these cases is for members to report hem to the Federation as and when they arise and for the Federation then to take the and for the Federation then to take the matter up with the authorities concerned.

# Direct Labour

The Federation and its sections have continued to press the policy that direct labour departments should only be awarded contracts in fair competition with contractors. Negotiations with the Ministry of Transport regarding direct labour have been re-opened and a series of meeting have been held with Sir James Dunnett, the Permanent Secretary of the Ministry. These negotiations are still proceeding

# CONTRACTORS TOLD OPENCAST COAL WILL BE NEEDED

# N.C.B. Chairman Speaks at Federation Dinner

"IT seems to me that at some stage we will need openess." purpose of flexibility, but we will also need it for the provision of special coals," stated Mr. Alfred Robens, chairman of the National Coal Board. at the annual dinner of the Federation of Civil Engineering Contractors in London last week.

London last week.

"At the moment, we are engaged in a very special survey of the South Wales area." he said, "because I am convinced that here we have got to go in for opencast on a very big scale, both for anthracite and some coking coal for the Steel Company of Wales. I hope in the next months that so be you will be able to know the survey.

of Wales. I nope in the next months that go by you will be able to know the plans we have in both these fields."

Mr. Robens, who was proposing the toast of "The Federation", said that it was their firm intention to use all the weapons their firm intention to use all the weapons within their commercial power to maintain the British coal industry at about 200 million tons of coal a year. He believed that by the big programme they had instituted, and by other plans, they would be successful in this task.

"If in our programme for mechanisa-

successful in this task.

"If, in our programme for mechanisation, there was no leeway to be made up," he continued, "I should be a despondent individual, but there is such an enourmous leeway that I have no doubt at all about the ability of the industry that I represent to mechanise to the nth degree, with a very clear planned programme to maintain price stability and give confidence to industrialists who are our customers.

"In all this members of the Federation are soing to be valuable to us as they have

are going to be valuable to us as they have been in the past. The reconstruction scheme must go on more quickly than was originally planned. We must think in terms of our opencast production and we have to think in terms of what the con-tracting industry is able to do for us as a very large sector of the British economy."

# President's Reply

Replying to the toast, MR. W. G. MITCHELL, C.B.E., president of the Federation, said he was quite sure they could produce opencast coal if it was required; but they must have time. They could not shut off the tap just at a moment's notice and start up opencast next week to the tune of 14 million tons, whereas the week after that it would be only five million

president expressed particular Interest in Mr. Robens' reference to the object of the National Coal Board of stabilising prices. "We, in industry, have had put upon us fixed-price contracts," he said. "Now, when we go to our suppliers of bricks, cement, steel and iron, they say we connection to the say we connection to the say." they say 'we cannot give you a fixed price because of the National Coal Board.' If

occases of the National Coal Board.' If you can get the stabilising of coal prices, you will take away that weapon from so many of our suppliers and put them on the same wicket as ourselves."

Turning to other matters, Mr. Mitchell said it was vitally necessary that civil engineering work, which provided the services of the country, must not get out of phase with the more ornate building and industrial development which was going industrial development which was going on, although he thought they had hammered that point home sufficiently to Ministers and others concerned.

Ministers and others concerned.

"Another aspect to which I would like to refer is that of youth in our industry," he said. "We must have young and adventurous people; old people can give advice and guide, but if we are going to get the work done we have got to have youngsters.

youngsters.
"Now, this is a view which is not confined to our Federation, but is shared by

our sister bodies in the industry—the Institution of Civil Engineers and the Association of Consulting Engineers. They realise, as we do, that the whole basis of our industry is youth, and with youth, progress, adventure and getting out and doing things. progress, adv

# Practical Training Scheme

Practical Training Scheme
"Some 12 years ago, with the Institution and Association, we brought into operation a scheme which was quite revolutionary at the time, a scheme for the practical training of young engineers. We indentured these youngsters whether they were graduates or not, and we took them into our firms and gave them training in practical engineering. Now, that was a remarkable step forward, because it has brought, which does not happen in all other industries, the professional branch into the construction branch.
"That is a point I am not going to develop here, but I think it is the foundation of our industry that the people who

tion of our industry that the people who design the work and the people who make it are so closely integrated. This scheme has

it are so closely integrated. This scheme has been a tremendous success, and the result is that contractors have on their staff highly trained engineers, and, if I may say so, the consulting engineers have got on their staff people who design things that can be made instead of designing things that can only be made on paper.

"There is another matter that we have also been pursuing with the Institution and with the Association—the Civil Engineering Scholarship Trust. This, we believe, is fulfilling a much needed want in attracting men to our industry of the highest calibre. The standard of the applicants who are coming forward for these scholarships is very high. os is very high. There is another scheme which we are

hammering out, again with the Institution and the Association, in conjunction with and the Association, in conjunction with the Minister of Education; that is, the training of technicians. The idea of the scheme is that there are a great number of people who can be of great use to our industry and can advance to the highest positions in it, but who are not academically minded, or who cannot get to the standard of the Institution examination. We would like them not to be tion. We would like them not to be second-class but first-class in their own second-class but first-class in their own line, and we are looking into the question of training these people for a different branch of our industry, but, at the same time, being first-class at it. We hope this scheme will go forward. It is in its infancy at the moment, but I feel it is a most important step forward.

"In addition was are considering the

a most important step forward.

"In addition, we are considering the training for management, the training for operatives of various grades, such as maintenance fitters and others who are absorbed to the state of lutely vital to our industry. We are considering all these things, and in view of the 'bulge' which is upon us now, it is a matter we must take very great

### Research

"In this age of great technical progress, of Sputniks and Spacemen, Cosmonauts and Astronauts, no industry can hope to hold its own unless it is willing to devote substantial resources to research. Here again, we are in close co-operation with the professional bodies to deal with the question of research.

question of research.

"I have touched on these things, perhaps, at greater length than necessary, because they are things that we have got to do to keep our industry in the forefront of progress. Youth and research are the two things that I think must be in the forefront of our thinking as a Federation and as an industry.

and as an industry.
"In conclusion, I would like formally

to thank Mr. Robens for the way in which he has proposed the toast of our Federa-tion. I would assure him that whether it is opencast coal or surface work that the is opencast coal or surface work that the National Coal Board requires, we shall co-operate with him, and I think an occasion like this is a very good example of the different people one can meet in this industry, or associated with this industry, who are all prepared to co-operate with each other for the benefit of our country."

# Importance of Flexibility

Another speaker was Mr. MAURICE MACMILLAN, M.P., who said: "I think there is a danger now of our life in general,

MACMILLAN, M.P., who said: "I think there is a danger now of our life in general, including industry, beginning to lack flexibility, and I am very glad Mr. Robens mentioned this point.

"If we are to face the world as it is today it is important that, both within industry itself and outside, we must be prepared to do whatever is necessary, that people must be prepared, if necessary, to change their jobs and their firms and to think again about the type of work which they are prepared to undertake.

"But industry itself, especially with the vast competition from Europe, which whatever the solution about the Common Market, is going to be increased, should try to adapt itself as best it can to the future."

Guests at the dinner were welcomed by Mr. A. J. HILL, chairman of the Council, His speech, "John Sumner" reports elsewhere in this issue, was "at once a masterpiece of wit in content and of brilliance in exposition."

### INCREASE IN L.C.C. HOUSING OUTPUT

The L.C.C. Housing Committee report that by making fuller use of architects in private practice a target of 4,750 new dwellings a year can be fully achieved in about four years' time.

The committee have been examining the practicability of increasing the council's housing output, which is at present over 4,000 new dwellings a year. The increase will cost a further £1}-£2m. a year between 1963 and 1966, and about £3½-£4m. a year extra after 1966.

# Staff Shortage

More than any other single factor, the shortage of architectural staff has limited in recent years the rate of commencements of new dwellings, state the committee. This shortage must be regarded in the context of a national shortage in a time of great building activity. The salaries and promotion prospects of all L.C.c. staff are constantly under review to enable the are constantly under review to enable the council to compete fairly for such staff as are available.

as are available.

There are also staff shortages in the valuation department, but if these could be overcome sufficient land could be made available to enable work to start on the erection of about 5,000 dwellings a year over the next four or five years. In fact, land sufficient for the erection of about 26,000 new dwellings in the county is at present in various stages of acquisition and clearance prior to development.

The Committee say that every endeavour will be made to increase the use of standard housing blocks, so long as this is consistent with maintaining the council's high standards of design.

Although their report is concerned with the council's operations under the Housing

Acts, the committee point out that the significant contribution to the solution of London's housing problems which is being made by the expanding towns programme.

# £8.6M. CHESHIRE MOTORWAY CONTRACT ANNOUNCED

# Tarmac's Tender Approved By Minister

FOLLOWING the recommendation of Cheshire County Council as agent authority (The Contract Journal, May 4), Mr. Ernest Marples, Minister of Transport, has authorised the acceptance of the £8,635,674 tender of Tarmac Civil Engineering Ltd., for the construction of a further 15 miles of the Birmingham-Preston Motorway just south of the partly completed Thelwall Viaduct. The work is scheduled for completion within 27 months

The section now to be constructed has its southern end at the interchange with A.54, near Holmes Chapel; from there, the A.34, near Holmes Chaper; from there, the route passes northwards, to the west of Knutsford, to end at the junction with A.56, where it joins up with the Thelwall Viaduct, which will carry the motorway over the Manchester Ship Canal and the river Mersey

### Three-lane Carriageways

The motorway will have two 36ft.. three-lane carriageways, each with a 10ft. wide hard shoulder, and separated by a 15ft. wide central reserve. Construction of 36 bridges will be necessary, in addition to a railway bridge at Plumley, which is being railway bridge at Plumley, which is being built by the British Transport Commission. There will be junctions with the existing road system at Howshoots (A.50), Tabley Superior (A.556 near Knutsford) and Holmes Chapel (A.54).

Holmes Chapel (A.54).

The motorway construction will consist of hot rolled asphalt with 10in. cement bound granular base. The hard shoulders will be surfaced with tarmac. Some 130 miles of drainage will be laid ranging from 4in. agricultural pipes to 54in. concrete

Other facts and figures: 2,750,000 yd. of

excavation; 700,000 cu. yd. of imported filling; 6,000 tons of reinforcement; 85,000 cu. yd. of concrete.

The roadworks have been designed for

the Ministry by Cheshire County Council (county surveyor and bridgemaster Mr. C. G. Day, A.M.I.C.E., M.I.Mun.E., A.M.T.P.I.). The bridgeworks have been designed by Scott and Wilson, Kirkpatrick and Partners, consulting engineers.

The whole 78 miles of motorway between Dunston, north of Birmingham, and Presbunston, north of Birmingnam, and Freston will soon be under construction. The lengths in Staffordshire and Lancashire have already been started, and the only remaining section is that in South Cheshire (between the Staffordshire-Cheshire border and the A.54 at Holmes Chapel) for which tenders are under consideration. It is tenders are under consideration. It is hoped to start work on this section shortly.

### HARLOW HOUSING COMPETITION WINNER

Mr. Michael Neylan, Worple Avenue, Wimbledon, has won the first prize of £1,000 in Harlow Development Corporation's design competition of a housing area comprising 270 houses, with a minimum of one car to each house.

one car to each house.

There were 41 entries for the competition which was the first to be held for housing in a new town. The assessors stated that the winning plan provided an efficient vehicular circulation system separated from pedestrians. It exploited the shape and contours of the site to form a raised podium for pedestrians with traffic circulation and car parking below.

car parking below.

Mr. Neylan's design, six houses short of the required number, is estimated to cost £537,500.

# N.J.C. CONFERENCE OF REGIONAL CHAIRMEN

THE fifth annual conference of regional joint consultative chairnen and secretaries was held at the R.I.B.A. recently; Mr. George Grosvenor, C.B.E., was in the chair. The Conference was attended by representatives from all the regional consultative committees, together with members of the National Joint Consultative Committee

National Joint Consultative Committee.

A very full discussion of the present state of the building industry took place. All regions reported a very heavy load of new work which showed no signs of slackening. This was leading in most areas to labour shortages, especially of craftsmen. The large number of major projectspower stations, motorways, major industrial developments—were, in many areas, delaying progress on small and medium size projects.

size projects.

Although it was realised that building Although it was realised that building was essentially a service industry and must accommodate itself to rapid changes in demand without reliance on any artificial control of the volume of work, several delegates expressed the view that the Government should have regard to the effect on local resources of men and materials when scheduling the start of major works. The conference recommended that the National Joint Consultative Committee should attempt to take stock of the building industry's position in the national economy and the future capacity likely to be required.

# Projects of Exceptional Urgency

Projects of Exceptional Urgency
The need for specific advice to the industry from the National Joint Consultative Committee on how urgent projects should be handled was one of the main topics of discussion. Orthodox procedures were often inappropriate when a client, usually for good economic reasons, wanted a job built very quickly. The industry used many different unorthodox procedures to satisfy such clients, but they were not always successful.

A rationalisation of procedures, and in particular some means of combining the

A fationalisation of procedures, and in particular some means of combining the speed that results from negotiating a contract with an element of competition, was needed. The conference endorsed the proposal that the National Joint Consultative

Committee should examine this problem.

Lively discussion also occurred on the report from the Eastern Region of a conference on joint training and the news that the National Joint Consultative Committee had been advised by its officials to estab-lish a representative committee under an independent chairman to make proposals

independent chairman to make proposals for joint training before qualification.

The meeting closed with a warm vote of thanks to Mr. George Grosvenor for his conduct of all five of the regional joint consultative committee conferences which have been held. Mr. Grosvenor will reliaquish the National Joint Consultative Committee Chair in October next.

# L.C.C. PLAN 21-STOREY FLATS AT BERMONDSEY

TWO 21-storey blocks containing 160 flats are included in an £824,715 scheme by the L.C.C. for 253 new dwellings on a six-acre site near the Surrey Docks, Bermondsey. The scheme, recently approved by the Council's housing committee, has been designed in the housing division of their architect's department.

The site provides opportunities for remarkably fine views at high level over the Thames, but at ground level is more confined within the surrounding buildings and dock walls. The high blocks will also help to achieve a high density—41 dwell-ings per acre—and these have been sited so as to cause the minimum amount of overshadowing, either of the other build-ings on the site or of any adjoining ings on buildings.

They are designed to provide three-room and two-room accommodation. They are designed to provide three-room and two-room accommodation, every fourth floor being composed of two-room dwellings only (four to a floor), all the remaining floors consisting of four three-room dwellings. Each block will comprise 80 dwellings, and will have two lifts. The flats will have electric floor heating and panel electric fires.

# "Cluster" Blocks

The lower buildings will be arranged within the site so that they are contained within a reasonably large open space, free from vehicular traffic. The larger dwellings, four- and five-room maisonnettes, will be accommodated in four four-storey "cluster" blocks, consisting of three wings, the top three maisonnettes in each wing being approached by an access balcony

from a central staircase. The advantage of this arrangement is that each access bal-cony serves only three dwellings, and the maisonnettes are therefore quieter and more private than those in ordinary "balcony access" blocks.

The shape of the "cluster" enables an interesting form of layout to be achieved, with considerable areas of open space around and between blocks. A point of around and between blocks. A point of note in a scheme of this density is the provision of gardens to all ground floor maisonnettes, making a total of 36 private gardens in the whole scheme.

In the southern corner of the site, adjoining Moodkee Street, accommodation is to be provided for old people in a block consisting of nine one-room and 12 two-room dwellings arranged on three floors. Here again, a "cluster" type unit will be used.

### "Pedestrian Way

A feature of the layout is the proposed "Pedestrian Way" which lies to the north of the site between Renforth Street and Neptune Street. This pedestrian way forms part of a larger proposal for linking various estates in this neighbourhood, and in this case it will form a link between this estate and the adjoining borough council housing

Seventy-two maisonnettes in four-storey blocks and 21 flats in three-storey blocks are to be constructed. The layout also includes 34 garages, parking space for 45 cars, 136 tenants' stores, three playing areas, a maintenance depot and two transformer chambers. There are very few existing trees on the site, and it is proposed to include 12 semi-mature trees in the planting scheme. planting scheme.

# STOCK EXCHANGE REBUILDING Architects Appointed

Professor R. Llewelyn Davies, F.R.I.B.A., of Llewelyn Davies and Weeks, and Mr. H. Fitzroy Robinson, F.R.I.B.A., of Fitzroy Robinson and Partners, have been appointed as associated architects for the rebuilding of the Stock Exchange, London. It was announced in March that the formal decision had been taken to rebuild the Exchange on the same site. Work is expected to start during the first half of 1963.

# £16M. VOLTA CONTRACT FOR IMPRESIT

The Impresit Group of Italy, builder of the Kariba Dam in Rhodesia, have were the £16m. contract for the first stage of the Volta River dam and hydro-electric scheme in Chemo. in Ghana.

It is expected that work will start below the end of this year,

# **FOURTEEN-STOREY** FLATS FOR WOOLWICH B.C.

First Part of St. Mary's Redevelopment Scheme



Side elevation of one of the four tower blocks

A FOURTEEN-STOREY tower block A of flats framed in reinforced concrete flat plate construction was opened at St. Mary's Redevelopment Scheme, Woolwich, last week by Princess

Margaret.

The block is a "butterfly" shape on plan and is one of four—two 14-storey and two 13-storey—being built on the six-acre site. A total of 219 one- and two-bedroom flats is contained in the four blocks, which rise to a height of 138ft.

The complete St. Mary's scheme provides for a total of 279 dwellings at a density of 141 persons to the acre, calculated on

the basis of 1.1 persons per habitable room. In addition to the multi-storey blocks there are five four-storey blocks providing 37 three-bedroom maisonnettes, 13 one-37 three-bedroom maisonnettes, 13 oneroom thats and a shop; one two-storey block
with eight one-room flats for aged persons;
a shop and house for a shopkeeper; a fourroom doctor's house with surgeries; and
two communal laundries.

Pram stores are provided at ground floor
level on the basis of one for each twobedroom flat or three-bedroom maisonnette, and garage space around the site is
provided for 20 per cent. of the total
number of dwellings.

The site falls away some 70ft. from

south to north, with a centre line of 1,140ft, and a maximum width of 250ft. Within this area the architects have sought to provide the residents with a pleasant environment and an ever-changing and interesting view. A central "spine-walk" links all of the buildings, with branches to the perimeter at points nearest to the shops and bus routes. Private gardens have been provided for the lower maisonnettes, the doctor's house, and the aged persons' flats.

The remainder of the site has been

The remainder of the site has been planned as a communal open space with grass and trees. This includes seven 30ft. high London plane trees which are being transported from Berkshire, as well as silver birches, rose bushes, broom and cotoneaster.

Two play areas are being provided for children of two to five years of age, located opposite the communal laundries, with w.c.s and drinking water fountains nearby. For the children of five to 11 years of age there are two additional play areas which incorporate specially designed playground furniture.

## Construction and Finishes

Construction and Finishes

The "butterfly" shape of the tower blocks gives the maximum amount of natural ventilation, privacy and light. The two-bedroom flats have an overall area of 673 sq. ft. and the one-bedroom flats an overall area of 533 sq. ft. Each flat contains, in addition to the bedrooms, a living room with a large picture-frame window, and kitchen incorporating a porcelain enamelled sink with double metal draining boards, a larder, broom cupboard, fitted wall storage cupboard units and electric and gas points. Space is also provided for a cooker, refrigerator and wash boiler. Each block is served by two lifts.

The blocks have 17in, diameter bored

The blocks have 17in. diameter bored pile foundations designed to carry 50 tons at an average depth of 30ft. The reinforced concrete flat plate frame construction is fair faced where exposed, with a panel infill of flint lime brick and concrete



General view of a section of the St. Mary's scheme

block cavity walls with aluminium foil insulation in the cavity.

Windows are metal throughout and all cleaning and reglazing can be undertaken internally. A cast concrete feature panel is located under each window. The balconies have concrete floors and roofs. At the sides of the balconies clear and wired glazing run the full height of each block.

The roof structure, which is faced with sand-lime bricks, houses the lift motors and tank rooms.

The entrance to each block has a concrete canopy with painted soffit and mosaic fascia. Concrete tiles are used on ground floors with granolithic elsewhere. Internally each flat is finished with thermoplastic flooring, plastered walls and ceilings, concrete tiled sills, white glazed tiled splashbacks and flush doors.

The two communal laundries each contain two gas-fired washing machines, one spin dryer and six drying cabinets.

### Maisonnettes

The three-bedroomed maisonnettes have an overall floor area of 857 sq. ft. and in-clude an open plan dining room and a kitchen large enough for the occasional meals. The bed-sitters have an overall area of 428 sq. ft.

The maisonnettes are of cross-wall construction on a reinforced concrete raft with brick and precast concrete infill panels. Floors, access stairs and balconies are of reinforced concrete and the roofs are covered with concrete tiles.

As in the taller blocks, windows and shes are metal throughout and a cast oncrete feature panel is located under each window.

The lower maisonnettes have independent street doors and a passage through each building leads by a common enclosed staircase to balconies giving access to the upper dwellings. Stairs and balconies are of reinforced concrete finished with grano-

Internally the maisonnettes have thermoplastic flooring to solid floors with boarded flooring for the bedrooms. Otherwise internal finishes are similar to the flats. The aged persons' flats are of similar construction to the maisonnettes, but the foundations are of wide strip formation. The bed-sitting room flats have 310 sq. ft. of accommodation and the three-bedroom houses and shop, 882 sq. ft.

The doctor's four-bedroom house and supparise in traditional for a true three treatment.

surgeries is traditional for a two-storey building with facing bricks of clay for the house and flint lime for the link and surgeries. The roof is three-ply built up roofing on 2in, woodwool slabs.

### Services

The mains water supply serves all buildings but a booster pump is necessary to reach the tank in No. 1 point block.

All dwellings, except the doctor's house, have instantaneous gas-fired water heating, have instantaneous gas-fired water heating, in the

Background heating is provided in the living rooms and adjoining bedrooms in the point blocks by electric floor cables fed by off-peak loading. In addition, the living rooms have an electric fire set in a granolithic panel beneath the large balcony window.

In the maisonnettes, flats and house, the living rooms have open fires with floor ducts for fresh air feed. All dwellings have electric points for tenants' own heat-

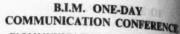
Each point block is served by two refuse chutes which deliver into three Palladin bins for collection and disposal by the local authority. The lower blocks have a combined system of refuse chutes and ordinary household dustbins.

A central aerial and relay system for wireless and television is installed in each of the four point blocks.

### Architects and Contractors

The contract, which is valued at £617,369, was started in July. 1959, and is scheduled to be completed by January, 1962. Norman and Dawbarn, 7 Portland Place London, W.I. are the architects and consulting engineers, and the quantity surveyors are Frank N. Falkner and Partners, 39 Bedford Square, London, W.C.I.

The main contractors are Wates, Ltd., 1258 London Road, London, S.W.16.



COMMUNICATION in industry COMMUNICATION in industry at commerce will be the subject of one-day conference of the British Institute of Management to be held at the Conaught Rooms, London, W.C.2. on Thu

of Management to be held at the Connaught Rooms, London, W.C.2. on Thurday, May 25.

Lord Beveridge, will open the conference, and Papers will be presented by Sir Josiah Eccles, deputy chairman of the Electricity Council, on "Communication and the responsibility of the Chief Executive." Mr. Victor Feather, C.B.E., assistant secretary, Trades Union Congress, on "Communication and the Trade Union, Mr. Alvin C. Leyton, head of liberal studies Northampton College of Advanced Technology, on "Communication—The Individual Problem" and a B.I.M. communication project will be described by Mr. E. Moonman, B.I.M. human relations adviser. The conference will end with a pane discussion lead by Sir Richard Coppock. Mr. J. Campbell Fraser, public relations officer, Dunlop Rubber Co., and Mr. Bowman Scott, director, Solartron Electronic Group Ltd.

Sir Hugh Beaver and Mr. Gerald R. Moxon, chairman of the B.I.M. human relations advisory panel and industrial relations staff officer, United Glass Ltd., will act as chairmen during the day.

act as chairmen during the day.

### LONG AND LITTLE WITTENHAM SEWERAGE SCHEME

Wallingford Rural District Council have wallingford Rural District Council have now received approval to a sewerage and sewage disposal scheme, for the villages of Long and Little Wittenham, comprising approximately 2,400yd. of main sewer, three small pumping stations, and sewage disposal works, incorporating a comminutor and screening chamber, sedimentation tank, thous the state of the comming station, the second service of the council have been seen to be considered to the council have been seen to be considered to the council have been seen to be considered to the council have been seen to be considered to the council have been seen to be considered to the council have been seen to be considered to the council have been seen to the council have been seen to be considered to the council have been seen to

and screening chamber, sedimentation unit, filters, humbs tanks, pumping station, irrigation area and sludge drying beds.

The design and construction is under the direction of the council's engineer, Mr. C. F. Parsons, an assistant engineer, will be in charge of the construction, with Mr. A. S. Clarke as clerk of works. The main contractors will be Tilbury Construction Co., Ltd., Ruscombe Works, Twyford, Berks.

This scheme, estimated to cost £48,000, will complete main drainage for all villages in the rural district.

### NORTH OXFORDSHIRE IRONSTONE WORKING REFUSED

Mr. Henry Brooke, Minister of Housing and Local Government has refused planning permission for opencast ironstone working from nearly 5,000 acres of land in north Oxfordshire.

in north Oxfordshire.

The land lies between Hook Norton, north east of Chipping Norton on the west side, and the county boundary near East Adderbury, south of Banbury on the east. Six applications for permission to win and work ironstone from 4.700 acres were made by Richard Thomas and Balwins (Mineral Recovery) Ltd., and Robert McGregor and Sons Ltd., applied for pamission for opencast ironstone working for about 112 acres.

In common with all ironstone applications these proposals were referred to the Minister for decision and public loadinguiries were held last November.

# TRAINING CONFERENCE

TRAINING CONFERENCE
A conference on Practical Training
the Professional Level will take place.
L.C. Brixton School of Building
2.30 p.m. on Wednesday, May 31.
chair will be taken by the chairman
Governors, Mr. R. G. Norman, and
principal speaker will be Dr. Alec Rob
professor of occupational psychology in
University of London. The conference
intended as a contribution to the activi
of Commonwealth Technical Train
Week.



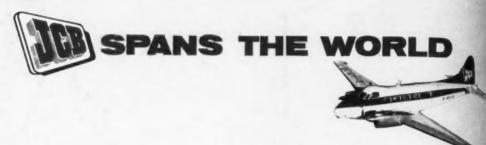
On the same day that she opened Woolwich B.C.'s multi-storey flats at St. Mary's Redevelopment, Princess Margaret visited the Borough's Auto-Stacker car park, pictured here. This is the first fully automatic multi-storey car park to be built for a public authority in Great Britain. Design and construction was carried out by Truscon, Ltd., on behalf of Auto-Stackers, Ltd. The architects were T. and P. H. Braddock. Other contractors included: Ace Machinery, Ltd., mechanical installation; Dewhurst and Partners, electrical motor control equipment; and Standard Telephones and Cables, Ltd., electronic supervisory control equipment. The building was described in The Contract Journal, January 26, 1961





working on the Italian State Highway No.1 -The Via Aurelia H c THE CONTRACT JOURNAL 18/5/61





A new chemical storage depot under construction for Montecatini Chemicals at Tor Sapienza Rome.

The new factory will occupy an area of 80,000 sq. yards and will have specially treated marble anti-acid flooring. When completed the building will form one of the principal chemical storage areas in Southern Italy.

4's are excavating foundations for this most important project and the engineers are inspecting holes 13' 6" deep and 10' square for the main support structures.

These machines form only a small part of the large number working in Italy and throughout many other countries of the world.

THE NEW MONTECATINI CHEMICAL WORKS IN ROME



ROCESTER STAFFS TEL: UTTOXETER 3122

**TELEX 3654** 





### BIRMINGHAM PROJECT WILL BE EUROPE'S £5M. MOST ADVANCED SHOPPING CENTRE

TORK began in Birmingham this week on the erection of the £5m.
Ring Centre—a Laing Development mpany project which is designed to wide the most advance trading centre

ovide the most advance trading centre Europe.
The Centre, which will be a reinforced neste frame construction clad in precast acrete units, is to occupy three sites both sides of the Inner Ring Road, terlinked by covered bridges which will corporate shops. The total site area is me four acres in extent, lying between Martin's Church and the reconstructed we Street Railway Station, with which will be directly linked by a 140ft. steel diga. Along the bridge will be a vered shopping mall. Incorporated within the Centre there ill be 350.000 sq. ft. of retail shopping ace in 140 shopping units, department ores, supermarkets, a general retail relet covering an area of 36,000 sq. ft., that separate fish market of 14,000 sq. ft., that covering an area of 36,000 sq. ft., there will also be restaurants, licensed emises, banks, multi-storey car park, a wentral "Midland Red" bus station of a seven-storey office and management ock. Facilities for entertainment and creation, including a bowling centre and nqueting rooms, will be included in the heme.

All trading accommodation will be con-All trading accommodation will be con-ned within the main structure of the nere in which the temperature will be gulated in public thoroughfares and parate precincts, while each shop will we a separate control unit. Air condi-ning and cooling plant will maintain an uable temperature throughout the year. nent Level-Main Block

This level, which is approached by ramp on Edgbaston Street, contains loading ys and service lifts for goods delivery the whole of the main block of the heme; storage areas for the fish market d general retail market, together with rtain shop storage areas; stock rooms, rong rooms, refrigeration plant and blief house. iler house.

#### Station and Market Level

This level comprises: (1) Midland Red entral Bus Station; (2) service area in-uding loading bays and lifts for the spartment store block on the west side the Inner Ring Road; (3) the fish and

general retail markets; (4) sale floor of F. W. Woolworth and Co., Ltd.; (5) shops, banks, public houses, etc., fronting East Court and Edgbaston Street.

There will be four escalators, two at the market entrance and two in the foyer between the bus station and market areas, which give access to the shopping floor above.

#### First Shopping, Floor

The floor has direct access by subway from New Street and from the footpath on the south side of the Inner Ring Road

shop units and the lower level of the three-level department store. At the western end of this floor the Central Court will be situated, which in addition to providing a focal point for the Centre, will also be used for trade shows and exhibitions. Four escalators will rise from this court to the upper shopping level.

#### Car Park Level

At the western end of this level the West Court is situated which has on its perimeter seven shop units and the middle level of the three-level department store.



View from Worcester Street looking towards the west court and Smallbrook Street

and also by staircase from the West Court. It is also approached by escalators from the foyer adjoining the bus station and the markets entrance, and by spiral ramp from the East Court.

In addition to the sales floor of F. W. Woolworth and the Midland Red Bus Company's snack bar, there will be 36

An escalator is located at the entrance from this court, giving access to the upper shopping level. Also on this floor is the entrance and assembly area for the multilevel car park and a large portion of the Woolworth store. There will also be storage areas for the shops.

#### Upper Shopping Level

Access to this level is gained by escalators from the High Street/New Street entrance, by escalator from the West Court and via the bridge over the Inner Ring Road by means of the covered mall leading from New Street Station. The four escalators positioned in the Central Court provide a direct link between the two shopping levels.

On this level, in addition to storage areas

On this level, in addition to storage areas over the West Court shops, there will be 40 shop units, the upper level of the three-level department store—and on the bridge leading from the High Street/New Street entrance, either a large store or supermarket unit.

Below the store or supermarket unit and to the north of the south carriageway of the Inner Ring Road, at the level of the new open market, there will be kiosk shops and the refreshment facilities and foyers, etc., serving the Bowling Centre, which it is proposed shall be built below the public gardens.

Above the roof level of the main block there will be the seven-storey office and management building and a four-level car park for 500 cars.

The contractors are John Laing Construction. Ltd., who expect to complete the scheme towards the end of 1963. The architects are S. Greenwood, A.R.I.B.A., in association with T. J. Hirst, A.R.I.B.A.,



A model of the Bull Ring Centre

# John Sumner's Notebook .

THIS year's annual dinner of the Federation of Civil Engineering Contractors was the usual sparkling affair, the most impressive sparkles emanating from the four speakers—Mr. W. G. Mitchell, C.B.E., the president, Mr. Alfred Robens, chairman of the National Coal Board, Mr. A. J. Hill, chairman of the Federation, and Mr. Maurice Macmillan, M.P.

The company was somewhat smaller than in previous years but those who were there will probably agree with me that Mr. Hill's contribution to the after dinner speeches was at once a masterpiece of wit in content and of brilliance in exposition.

Mr. Mitchell made the civil engineering part of the building industry sound most attractive to young people choosing a attractive to young people choosing a career in construction. Whilst holding that it was the job of older men to be in that it was the job of older men to be in a position to advise he stressed the need of civil engineering firms for young men to do the work. He made special references to the various training schemes for young engineers operated by the professional institutions, the civil engineering scholarship scheme and to a new scheme for training technicians (whatever that may be). There was also some reference to be). There was also some reference to training arrangements for mechanics.

This all goes to show just how conscious the civil engineering contractors are of the the civil engineering contractors are of the importance of training. But I believe there are still some construction concerns unaware of the responsibility that is theirs to undertake the training of craft apprentices. The attitude seems to be: "Let's get all the people we want at the top and we can get the rest from the small firms."

A M I alone in thinking along these lines? A M I alone in thinking along these lines? I don't think I am. Only the other day Mr. Tom Jones, the North Wales Organiser of the Transport and General Workers Union, levelled some forthright criticism at the contractors engaged on some major projects, for failing to train apprentices in the skilled trades on which they make heavy demands. Mr. Jones said that the firms are taking all the skilled tradesmen they can find, but they do not operate any training schemes themselves. Mr. Jones is not the only one who feels as I do. At the Llandudno conference of

as I do. At the Llandudno conference of nearly 100 industrialists and trades union leaders to consider industrial training for the school-leaving children of the next three years, he was supported in his views by Sir Geoffrey Summers who said that he believed that the big contracting organisations were not pulling their weight in meeting the problem of training.

Lord Brecon, the Minister of State for Lord Brecon, the Minister of State for Wales, who opened the conference, stressed that in the next few years many more boys of real ability were going to become available. If they were to have the same opportunities as last years school leavers of securing apprenticeships in the skilled trades the number of apprenticeships offered would have to show at least a 334 per cent, increase over last year.

a 331 per cent. increase over last year.

This is really something for contractors to get their teeth into. They can't expect the smaller firms to carry the load for them

WHILST on the subject of apprentice WHILST on the subject of apprentice-ship I was intrigued the other day to learn of an idea put forward by the newly elected President of the National Federation of Demolition Contractors, Mr. S. B. Allison. He proposed that the Federation should endeavour to institute an apprenticeship scheme for the training of young men in demolition work. How much skill is required to knock a building or young men in demoitton work. How much skill is required to knock a building down? On the face of it, not much; but when one thinks about it a little more it is not difficult to realise the dangers and hazards to life and limb (for the general public as well as for the operatives engaged on the work) if such activities were left in the hands of inexperienced men.

Apparently in the old days the "craft" of demolition work was passed from father of demolition work was passed from father to son, whether employer or employee. The father, an experienced demolition man, would bring his son into the same firm for training to the stage where he would become a capable craftsman. Unfortunately this trend has not continued and Mr. Allison feels that if some form of apprenticeship scheme could be worked out between his Federation and the unions it might be of great advantage to the industry as a whole. And so it might. But I am left wondering how you teach a youngster to have the nerve to balance on a 9in. wall with a sheer drop to the street below of the best part of 100ft.; and, more particularly, how you find a teacher!

THERE isn't, some of my readers will be surprised to learn, a professional institution, trade organisation or trade union in the country which is not desperately short of money with which to provide a full service for its members. One of the reasons for this is the natural reluctance of officers and councils to formulate and approve higher rates of subscription. Whereas, in most cases, many subscription rates are only twice the pre-1939 figure—if that—the cost of running organisations of the kind I have mentioned is at least three or four times what it was before the war. Members want the services improved — quite naturally, but they don't exactly fall over themselves to pay salaries for competent brains to provide them.

I am led to believe that Mr. George

brains to provide them.

I am led to believe that Mr. George Smith, the General Secretary of the powerful (but not so powerful as it was) Amalgamated Society of Woodworkers is in sympathy with these views. Writing in the Society's Journal he points out that although membership has increased contribution income went down by £4,000 between 1959 and 1960. Arrears increased to £58,819, from £57,116 in 1959. He also pointed out that in 1939 the total assets of the Society amounted to £601,000; they are now £1,692,665. When the decline in the value of the pound since 1939 is taken into account, the real value of the Society's assets now is only just over £3,500 more than before the war. In fact, the Society has virtually stood still.

Comments Mr. Smith: "I cannot envisage overcoming this situation unless we take steps to switch some of our investments into areas in which at least the real value of our money is maintained. I know this would involve holding industrial distartion desired. I am led to believe that Mr. George

ments into areas in which at least the real value of our money is maintained. I know this would involve holding industrial shares, which may conflict with certain prejudices we may hold; but if we are not prepared to take any action, we know at least from the figures I have given the cost of our inaction." of our inaction.

of our inaction."

Just what the cost of that inaction is may be gathered from the fact that the Society's reserve funds average £8 17s. 6d. per member; in 1939, the figure was £3 18s. 9d. Thus the real value of the Society's assets per member is less than in 1939. What is more significant is a comparison of the assets per member with the Grade A weekly rate. The reserve per member in 1939 was 7s. 3d. above the Grade A rate of £3 11s. 6d. a week; today the figure is £2 2s. 6d. below the Grade A rate of £11 a week.

It looks as though the Amalgamated

It looks as though the Amalgamated Society of Woodworkers will have to think society of woodworkers will have to think pretty smartly about setting in motion the machinery for raising its dues from members. In the meantime the Society, in considering Mr. Smith's suggestion about the acquisition of industrial shares, may like to think about ploughing back some part, at least, of its funds into those industrial enterprises within the industries from which its members gain their livelihoods—building for instance.

The trade unionists would then have a justifiable vested interest in maintaining the efficiency and raising the profits of the concerns for which they work.

STOKE-ON-TRENT City TOKE-ON-IKENI City Council, I learn, have appointed a sub-committee to investigate a report by the District Auditor referring to misallocation of expenditure incurred by the City Works Department.

expenditure incurred by the City Works Department.

The report states that malpractices began in 1957 and were discontinued, before they had been discovered, in January, 1960. Fortunately, no suspicion emerged of action of a fraudulent kind, but the District Auditor refers to an investigation by the City Treasurer, and later at audit, of accounts which show that various sums of money incurred on certain C.W.D. contracts had been wrongly allocated to other accounts. He states that the malpractices were entirely deliberate, were initiated by the Building Manager and his deputy, and were effected, under instruction, by the staff of the capital works building section of the City Works Department.

He continues: "They were designed to ensure that where the cost of capital works carried out by the department, particularly those relating to education, had exceeded, or was likely to exceed, the so-called 'contract' price the excesses would not show in the accounts and would not be disclosed to the City Treasurer or to the committees concerned."

The interesting thing about this business is that the report says that the Building

The interesting thing about this business is that the report says that the Building Manager and his deputy stated during the audit that they had discontinued these practices of deliberate misallocations as the result of the publication of a report on an investigation into the Works Department of another local authority which ment of another local authority which caused them to realise for the first time the serious view which might be taken of their actions.

WHILE building firms up and down the country are contemplating the arrangements they will be making in October next regarding refreshment breats on their sites they may like to know of the following notice which one of my reporter colleagues on The Liverpool Echa recently came across displayed outside some business premises. It reads: "Due to increased competition and a keen desire of the property of the proper to increased competition and a keen desire to stay in business, the management have been forced to inaugurate a new policy, which will take effect immediately. Some time between clocking-on and clocking-of, at a period which does not interfere to much with lunch breaks, tea breaks, rest breaks, sweep-ticket selling, re-hashing of last night's television programmes and discussion of football prospects for the weekend, each employee will engage in a short spell which we shall call Work Break."

### £11M. PURFLEET CONTRACT

Holloway Brothers (London), Ltd., have

Holloway Brothers (London), Ltd., have just started extensive construction work on a three acre site at Purfleet, Essex, in connection with the expansion programme of Thames Board Mills, Ltd.

The £1.450,000 contract includes buildings to house new machinery and its ancillary plant, as well as raw material and finished goods warehouses. The largest section will be the machine house itself, some 590ft. by 70ft., with a total height of 57ft.

The work is due to be finished by the summer of next year. Consulting Engineers are Frederick S. Snow and Pariners.

## @bituary

It is with regret that The Control Journal records the death of Mr. Het John Trigg, aged 72, founder of H. J. Tri and Son, Ltd., builders, Gloucester.

## PRECAST PRESTRESSED BEAMS FEATURED IN NEW HANWORTH LAUNDRY BUILDINGS

NEW plant, designed for linen A supply, contract and industrial laundering, and containing the most fully automatic laundry equipment available, was opened recently at Twicken-ham Road, Hanworth, Middlesex, for Spring Grove Laundries, Ltd.

Spring Grove Laundries, Ltd.

The buildings, which comprise the first phase of future development, cover about 20,400 super, ft. of floor area. Of single-storey construction, the main laundry block has a floor area of 90ft. by 80ft., and there are also two double-storey blocks and a boiler house. Ultimately the main laundry block will have a clear floor area of 110ft. by 90ft.

The subsoil is variable, the rear of the

The subsoil is variable, the rear of the The subsoil is variable, the rear of the site having been old gravel workings, and the surface of the dense gravel/sand stratum outcrops towards the front and slopes sharply down beneath soft filling. Stiff London Clay underlies the gravel at depths of between 15ft. and 25ft.

Foundations are carried on 79 concrete piles of an average length of 39ft., 32 of which are sited beneath the boiler house.

which are sited beneath the botter house, while this section occupies only about  $r_{\rm b}$ th of the total floor area, it contains equipment weighing more than 200 tons. Piling was extended to cover the whole site for future extensions, allowing uniformity of bearing pressure and standardisation of

To dispose of the unusually high amount of effluent occasioned by the size and speed of the machines, estimated at 13,500 gallons per hour, it was necessary to con-struct a new sewer running some 200yd. from the plant to a 90ft. deep county grid

#### Clear Working Area

The layout of columns was made totally subservient to the needs of the automatic machinery imported for the purpose, and in particular the main laundry area was required to be a clear open space. In addition, no more than one internal column was permissible on the line common to the laundry area and to the side wing. A modular layout thus had no application except in relation to the component parts of the laundry beams.

of the laundry beams.

To provide the necessary working space, the contractors designed a structure in-

corporating prestressed concrete beams, each over 90ft. in length. The first-floor sorting area is cantilevered over the working space to house the special machinery, and this also provides a necessary expansion joint between the buildings.

A north light roof was chosen for the

A north light roof was chosen for the laundry area, and combined the advantages of an even light distribution at eye level

to the wing blocks were as follows: first, with regard to speed, it should be prefabricated and not require plastering; secondly, it should have a flame retardant surface measured as Class 1, B.S. 476; and thirdly, it should have a smooth surface to prevent accumulation of fluff from laundered articles in the working areas. The board chosen was a straw board



Front elevation

with the economy of the Orlit roof, modiwith the economy of the Orilt root, modified to suit the supporting beams. The asbestos-cement roofing has an under-the-purlin ceiling of the insulating fibre type, suitable for laundry use. Patent glazing with aluminium bars provides continuous day lighting.

The requirements for the roof decking

covered one side with asbestos felt and the other with bituminous paper. Two-coat asphalt was applied direct over a felt membrane. Falls were built into the structure.

The structure was therefore determined by functional needs. In the laundry area the main beam, continuous over two 55ft. spans, was to be supported at its centre by the single permissible internal column. The transverse beams spanning the 90ft, were then supported by the main beam on one side and by wind frames on the other.

#### Beam Fixing

At this stage of design it was decided to divorce the laundry structure from the side wing. This had two advantages, in that it provided a natural expansion joint, and the loads became such that the main beam had a comparable section with the transverse beams, allowing maximum reuse of moulds. It was then decided to fix the end of the transverse beams, giving significant reductions of concrete and cable and also providing a natural transverse wind frame. The fixity was achieved in two stages. A known prestressing force was applied to vertical cables passing through the outer column of the pair forming the fixed frame, producing a known fixing moment. Next the joint between this outer column and the beam was made good and the same cables stressed to their full value. End fixity under superimposed load was thus provided.

The I-section main beam and transverse beams were divided into suitable sections for precasting, allowing re-use of moulds with a maximum weight of individual unit of 2 tons. At positions of reverse moment, the standard unit was inverted, with a "twisted" unit as transition. High alumina cement concrete to the in-situ joints was



Internal view of north light roof, showing main and transverse beams

preferred over dry caulked joints as having better bond characteristics.

The high support moment in the main beam made it desirable to bring the prestressing cables out of the beam and through saddle units located over the central support. The resulting eccentricities produced a preponderant secondary ties produced preponderant secondary moments and it became economic to lower the beam by hydraulic jacking against the central column. A 112-ton Freyssi flat jack was used in conjunction with steel wedges

to lower the beam through lin., gauge readings being used check against the calculated deflection.

#### Freyssinet Prestressing

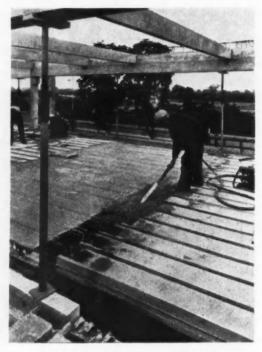
The Freyssinet system of prestressing for the beam cables was chosen for its good friction characteristics through friction characteristics through reverse curves, as well as allowing simpler site control in the stressing by stages, which was essential to the design. In order to limit the project to one prestressing specialist, the vertical system chosen was the P.S.C. monowire. Accuracy of vertical prestress was ensured by the use of shims inserted between the anchor grips and the bearing plate to give a specified the anchor grips and the bearing plate to give a specified gauge reading. Due to the anticipated delay be tween initial stressing and final grouting of these vertical cables galvanised wire was employed.

All horizontal strains due to prestress and temperature have been allowed for by a system of simple plate bearings in conjunction with Freyssinet

in conjunction with Freyssinet hinges at the base of certain columns. These hinges are columns. These hinges are designed according the the German method of Kammueller and Jeske. Column loads were of the order of 80 tons.

prestressing operations a check on hinge rotation was made by measuring the deflection of projecting arms clamped to the columns, and holding Mercer-type dial gauges. The Young's Modulus of the beams implied by these results was compared with that calculated on the one hand from cube results, and on the other from vertical deflection of the beams under prestress. This comparison was sufficiently close to show the good rotation characteristics of the hinges.

The two-storey wing blocks are in pre-cast concrete incorporating some novel features. Columns are generally full height, with beam seatings either by corbel or by an angle/tee connection allowing both vertical and horizontal tolerances. Beams are designed as composite with in-situ top flanges. The 40ft. span floor and roof beams to the front block have factory post-tensioned bottom flanges composite



Concreting top flange to composite beams

with reinforced concrete ribs and top

Floors are of the hollow slab type and the roof consists of lightweight decking supported by tapered precast purlins at

supported by tapered precast purlins at 2ft. spacing.
Wind bracing of the structure is supplied by nominal continuity between beam and column, by vertical continuity wherever possible, and by nominal fixity at the column feet, achieved by concreting into foundation pockets. Roof beams and purlins are tapered in section for economy of material.

The joint between the sorting floor beams and the columns is a recent development. Two angles project from the end of the beam and rest on (and are bolted to) a Tee projecting from the column. The 4in. joint was then shuttered and concreted. Tolerance of 4in. was allowed in all three directions by means of slotted holes and by shimming.

In the laundry area the prestressed beam elements were assembled in final position on scaffold towers, each comprising four tubes with adjustable screw heads, supporting timber bearers. Cable threading followed the in-situ concrete jointing. Stressing was then carried out in a given sequence as follows:

Main beam: stage 1—half stress to carry the beam itself and temporarily prop at third span points; stage 2—full stress following construction of transverse beams; and stage 3—jack down beam at central column.

and stage 3-jack down beam at central column.

column.

Secondary beam: stage 1—half stress horizontally and vertically to carry beam only; stage 2—full stress horizontally and final "cantilever" stress vertically following north light framing; and stage 3—check and adjust "cantilever" stress, make good beam column joint and full stress vertically, following roofing.

Stressing in stages was essential to the light and economic character of the superstructure. The various stages were in-

structure. The various stages were in-corporated into the site programme in such

corporated into the site programme in such a way as to suit following trades.

The wing blocks were erected by conventional means. Beams were propped at the third span points to gain composite action with the in-situ flanges. These flanges, in the case of the roof beams, were formed by permanent asbestos-cement shutters dropped into slots in the ends of the purious

the purlins.

The finish to all precast concrete is exmould without special treatment.

#### Designers and Contractors

Work started on the building in May, 1960, and was completed, including piling and sewering, in an overall period of nine months. The building was designed to the requirements of Spring Grove Laundries, Ltd., and constructed by Grove Building (Hanworth), Ltd., in collaboration with the main subject to Collaboration with the (Hanworth), Ltd., in collaboration with the main sub-contractor, Orlit, Ltd., Egham, who carried out the superstructure works, and the consulting engineers, S. H. and D. E. White, Victoria Street, London. S.W.I. who were responsible for the foundations. Design and construction was also carried out in collaboration with the preparating department of Spring Green. engineering department of Spring Grove Laundries.

#### R.I.C.S. INTERMEDIATE **EXAMINATION RESULTS**

The Royal Institution of Chartered Surveyors have announced the results of their Intermediate Examination held in February 1961. Of 1,742 candidates, 801 have been successful.

successful.

The following have been awarded prizes on the results of the examination: Special Prize—Mr. Michael Longridge, 14 Castle Gardens, Dorking, Surrey; Robert Irwin Barr Prize—Mr. Gavin Thomson McKiddie, 47, Taranty Road, Forfar, Angus.

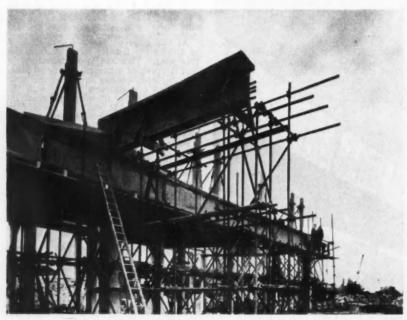
The Intermediate Examination was held in fourteen centres in the British Isles and twenty-six overseas, including East, Central, South and West Africa; Australia: New Zealand; Canada; West Indies; India; Far and Middle East.

#### SUPPLEMENT TO STANDARD FORM OF CONTRACT

Charles Knight and Co., Ltd., have recently published a supplement to the Standard Form of Building Contract by Sir Derek Walker Smith and Howard A.

Close.

Copies of this supplement may be obtained free on request if a stamped addressed envelope (6d. stamp, envelope 9in. by 4in.) is sent to the publishers 11—12 Bury Street, London, E.C.3, Copies of the book, together with supplement, are available at £2 5s., plus 2s. postage.



Method of support to prestressed beams

## NATIONAL INDUSTRIAL SAFETY CONFERENCE

## Construction Industry Accident Prevention Papers

DELEGATES to the National Indus-Dirial Safety Conference held at Scarborough last week had their attention drawn by Sir Howard Roberts, president of the Royal Society for the

president of the Royal Society for the Prevention of Accidents, to the high industrial accident figures for 1960 which have recently been announced. With an increase from 173,473 injuries in 1959 to 189,591 last year, and a rise in fatalities from 598 to 675 in the same period, the number of injuries and fatalities from thoughout industry in 1960 were even throughout industry in 1960 were even higher, he stated, than the provisional

figures released earlier.

A departure from the usual practice of Conference was the holding of a forum which delegates gave their views on a at which delegates gave their views on a number of items. Topics discussed included the following: That local education authorities, and in particular, technical schools and colleges, should give greater prominence to the preparation of young people for their future safe life in industry; that fire protection should be an integral part of the safety officer's duties; that truck and crane manufacturers, together with the British Standards Institution, should reach agreement with regard to the positioning of controls on industrial trucks and cranes; and that industrial safety is an aid to and that industrial safety is an aid to management in smaller concerns.

Among the papers on accident prevention given at the conference were two of parti-cular interest to the construction industry, cular interest to the construction industry, by Mr. C. H. Craft, a director of John Laing Construction, Ltd., and Mr. E. L. Bird, M.B.E., M.C., A.R.I.B.A., technical research and education officer at the Building Centre. Resumés of these papers are

### SAFETY THROUGH TIDINESS by C. H. Craft

The construction industry has its problems, many of them peculiar to themselves, most of them exaggerated in comparison with those of the factory. I hope to outline briefly the nature of our task, to note some of the achievements in dealing with the task, the way we are setting about it and the benefits which we hope to derive from any success we enjoy, If in doing so I can point a lesson or a way which sparks a reaction or shatters a complacency, I shall have done all that I can hope to do.

Consider some of our special problems

Consider some of our special problems our labour force is largely casual. It loves from employer to employer

Our labour force is largely casual. It moves from employer to employer, inevitably causing an attitude of despair towards the problem of training.

One of the main causes of this labour situation is the constant moving of our "factories" or sites. This brings other problems of administration, many arising in consequence of dispersal from the central services—such as safety control.

Most of the labour force is employed by small firms and 350,000 men are engaged

on maintenance work. We, therefore, have of maintenance work. We, therefore, have a difficulty in reaching and educating all corners of the industry. Men leave an enlightened safety-conscious firm and are replaced with others with no such background of safety discipline.

#### **Sub-Contracting Difficulties**

This situation is made even more difficult by the necessity to let out much of our work to sub-contractors. On a large and complicated building two-thirds or more of the work may be sub-let, frequently to specialists selected and appointed by the architect or client. Nevertheless we are as responsible for their good behaviour and safety discipline as the factory management is for ours when we we then their premises. enter their premises.

All our new works are carried out under

All our new works are carried out under conditions of exposure to weather and on such a bulky scale as to make it uneconomic to venture full protection.

More often than not, we have little control over the design of our product, hazards can be assessed only as work commences and frequently only become apparent when work is well advanced, as detailed drawings come to hand.

The nature of our job makes it necessary to work at great height and at depths, over

to work at great height and at depths, over and under water and the earth, with the attendant risks of operations from temporary structures, any addition to which raises the cost to our customers.

As well as our men, our machines are

As well as our men, our machines are exposed to the elements, to dust and to mud, often with no floor to stand on, and are expected to move on from job to job. Finally, the services to these machines and to the operatives—electricity, water and air—are almost invariably of a temporary nature and subject to constant hazards from being exposed and from frequent moving. hazards from be frequent moving.

Action costs money; it always does, but action costs money; it always does, but action can be measured and valued—workstudied and costed. Neglect cannot be assessed because the negligent cannot or will not put a value on it—only the bankruptcy court will provide that answer.

## STRUCTURAL FIRE PROTECTION IN FACTORIES

by E. L. Bird

There are three things you can do about a fire. The first is to prevent it happening as far as possible though, even with the most efficient fire prevention, occasional outbreaks are liable to occur. The second is to be in a position to attack the out-break and to put it out while it is still small, break and to put it out while it is still small, using equipment and trained staff in the building; this is known as first-aid fire fighting. The third is structural fire protection, that is to say, so planning and constructing a building that, should the first two measures fail, the fire is restricted by the structure of the building from growing beyond the capacity of the professional fire brigade to extinguish. Also, it is easily the least understood and the most neglected form of defence against

disastrous fires.

Fire protection not only requires consideration, it also costs money. Works fire brigades, full-time fire prevention officers and fire equipment, fixed and portable, all represent expenditure, either capital or maintenance; the latter is fortunately chargeable against tax.

Experience of many industrial fires has

shown clearly that the structure of the building is most important. Merely to erect the cheapest form of structure obtainable, while giving no thought to its fire-behaviour, is positively to invite disaster.

The primary objectives must be to keep up the roof and to clear smoke. First, I must emphasise that the primary line of defence against the development of a major defence against the development of a major fire is a sprinkler system, properly covering the whole interior and adequately maintained. This will check the fire, cool the rising heated gases and reduce the generation of smoke. In many cases a sprinkler system has extinguished the fire unaided. British industry is behind the United States in adopting this valuable safeguard.

Development of special fire ventilators fixed in roofs has taken place recently. Operated by fusible link, they open automatically and serve to let out heated gases and smoke, thus reducing the build-up of

and smoke, thus reducing the build-up of heat in the roof steelwork and permitting

heat in the roof steelwork and permitting firemen to see.

Lately, there has been extensive development of methods of protecting steelwork against fire which are light in weight and inexpensive compared with the traditional use of concrete for this purpose. Indeed, in general building I think they will shortly replace concrete almost entirely. Mostly they embody asbestos, gypsum or vermiculite in various forms and combinations and most of them are proprietary. They are applied either as wet plasters, or in slab form or are sprayed on.

Steelwork in many British factories is not protected against fire either for mistaken reasons of economy, or to facilitate fixing of equipment or, not uncommonly, because nobody has given the matter a thought. Protection of steelwork becomes especially important where reinforced concrete floors are supported by

becomes especially important where reinforced concrete floors are supported by steel beams and stanchions.

An intelligent understanding of principles and modern practice in steelwork protection, if generally adopted, would do much to mitigate the serious effects of many industrial fires.

industrial fires.

One of the basic principles of structural fire protection is separation of departments by fire-resisting doors protecting openings. by hre-resisting doors protecting openings. Sub-dividing walls in a factory are unpopular with managements for several reasons and they are very difficult to provide where there is conveyor line production. But again and again, it has been proved by hard experience that the best barrier against a severe fire is a brick wall and in many industrial fires a well-placed wall has prevented total loss.

### CONVERTING THE A.8 TRUNK ROAD TO **DUAL CARRIAGEWAYS**

THE rebuilding of the Edinburgh-Glasgow road, A.8, was one of the main projects in the new road programme announced last July by the Secretary of State for Scotland. Work is to start later this year on a scheme prepared by Lanarkshire County Council, to provide about 5½ miles of dual 24ft. carriageways between Newhouse and Baillieston at the western end of the route. end of the route.

The worst feature of A.8 from a highway engineering point of view is the number of

junctions, of which there are nearly two mile on the 33 miles between the Edinburgh and Glasgow city boundaries. Crossing and turning movements at these junctions account for a high proportion of all accidents. Last year on the Lanarkshire section of the road 10 out of 34 serious and five out of 12 fatal accidents happened within 20 yards of junctions.

The dual carriageway sections of A.8 must therefore have fewer and safer junctions than at present. The Baillieston-

Newhouse improvement will involve altera Newhouse improvement will involve alterations to a number of side roads and these are provided for in two Orders which the Secretary of State has advertised his intention to make. There is a three months' period after the date of advertisement during which objections to the Orders may be lodged. If none are made or they are later withdrawn, work on the scheme will start in August or September.

One of the Orders will provide for the building of three grade-separated junctions at Newhouse Industrial Estate, Shawhead junction and Rosebank junction and for the closing of other lengths of side

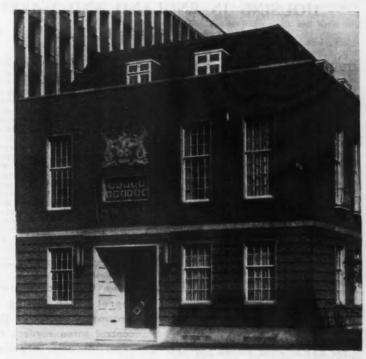


The Courtroom. Three of the bronze chandeliers are 18th century



Livery Room. The ceiling has been fashioned from precast fibrous plaster

# LIVERY HALL FOR THE **PEWTERERS COMPANY**



General view of exterior

A NEW hall for the Worshipful Company of Pewterers was opened on Monday last by the Lord Mayor of London, Sir Bernard Waley-Cohen. This modern attractive building, built by Holloway Brothers (London) Ltd., is the third hall that the Livery Company has erected, the first dating back to 1496.

Situated in Oat Lane, City, among the all office blocks of contemporary design, the architects, David Evelyn Nye and Partners, in association with Slater and An-

ners, in association with Slater and Andrews, surveyors to the Pewterers Company, created the Hall in a neo-Georgian style to act as a foil to the sur-

rounding masses. On plan it measures 53ft. by 50ft, with a height of 37ft, to the parapet. The basement is of reinforced concrete on piled foundations and the superstructure of load bearing bricks. Principal accommodation provided is a Livery Room on the ground floor, with a Courtroom above. There are also ante-rooms, cloak and robing rooms, a small office and a Beadle's flat on the top floor.

The exterior walls are of 2in., Tunbridge

Beadle's flat on the top floor.

The exterior walls are of 2in., Tunbridge multi-colour facing bricks, rusticated every sixth course to first floor level. All windows have 2in. Portland stone reveals and the entrance porch is lined in Hadene, supplied and fixed by Nine Elms Stone, Masonry Works Ltd., one of the Holloway

Group of Companies. A carving on the front wall depicts the coat-of-arms of the Pewterers Company and is by Gerald Guidici. It is from a block of Portland Stone made up from six pieces and built into the full thickness of the wall. Thin brick slips were then laid over the flat area of the stone to the edge of the carving and inlaid between the beasts and shield and other recessed areas of the carving.

All the joinery has been carried out by Victoria Joinery Ltd., another member of the Holloway Group. The main doors are in Afromosia with matching Lacewood panels. Large strips in the doors bear badges taken from the coat-of-arms of the (Concluded on page 869)



The main ground floor hallway

## HOUSING IN ENGLAND AND WALES A Statement By The R.I.B.A.

THE following statement was issued last week by the Royal Institute of British Architects:

British Architects:

The R.I.B.A. has considered the White Paper "Housing in England and Wales" published by the Minister of Housing and Local Government in February and the general contents of the Housing Bill now before Parliament. The R.I.B.A. particularly welcomes the proposal to make exchequer loans to approved non-profit making housing associations to build houses to let at economic rents.

The R.I.B.A. believes that the proposed subsidy arrangements will assist local authorities, which pass the test of resources, in coping with their housing problems in a more logical way than was possible when subsidies were limited to problems in a more logical way than was possible when subsidies were limited to housing for a few specific purposes and there was no subsidy for general need. There is no reference in the White Paper, however, to the particularly difficult problems of urban renewal and comprehensive redevelopment where housing is an important and the substantial statement of the problems of urban renewal and comprehensive redevelopment where housing is an important problems. ant element. It is considered that additional subsidies should be granted to assist authorities dealing with the difficult problems involved.

#### Artificial Distinctions

The R.I.B.A, would welcome any steps that could be taken to remove the artificial distinctions between housing and town planning in consideration of the administrative and financial aspects involved in comprehensive redevelopment. The increasing need for the renewal of the older parts of our towns and cities seems to call for a review of these aspects in their wider setting.

The higher rates of subsidy payable on a graduated scale for high blocks of flats, and other special and additional subsidies, remain unchanged. The existing subsidy arrangements have, however, been strongly criticised because they discourage three-storey buildings. This is often a particularly valuable form of development because flats can be provided without lifts and the additional height provides relief from the monotony of continuous two-storey development. It is also useful in providing a variety of accommodation. This point should be re-examined.

#### Land Problem

The paragraphs on the land problem show that the Government recognises the extreme difficulties of the present situation, but the R.I.B.A. doubts whether the

exhortations and proposed consultations described in the White Paper go very far towards removing these difficulties. The problem is not entirely one of allocating land for development. Extensive areas of land already zoned and usable for houses are not, in fact, being made available for development by their owners for a variety.

are not, in fact, being made available for development by their owners for a variety of reasons. Unless measures are taken to make this land available for development, pressures on green belts will increase.

It is most undesirable that more land should be zoned for development while land already so zoned remains unused. In this connection it is the opinion of the R.I.B.A. that the White Paper might well have devoted more attention to the relevance of increased densities and making better use of land.

better use of land.

The proposals intended to encourage

"The Contract Journal" regret that owing to circumstances beyond their control some readers may experience delay in receiving their copies of this week's

issue.

modernisation of old buildings are of value, but the R.I.B.A. is concerned lest the indiscriminate modernisation of individual houses should delay the redevelopment of areas which are already obsolete, and which areas which are already obsolete, and which could be renewed comprehensively at an early date. Where authorities have proposals for redevelopment within the next 15 years no improvement grant is payable, but there are many areas where the local authorities should have proposals for redevelopment within 15 years, but have

areas the modernisation of In these areas the modernisation of individual houses can prejudice the proper redevelopment of the areas on comprehensive lines and it would seem desirable for the Ministry to require authorities, if they have not done so, to submit proposals for comprehensive development areas where the layout and condition of property would justify such a course.

## Late Construction News

SEWAGE WORKS RECONSTRUCTION. SEWAGE WORKS RECONSTRUCTION.— Work has just commenced on the reconstruction of the Slade Hooton sewage disposal works, for Rotherham (Yorks). R.D.C. The contractors are West Riding Building Contractors, Ltd., Morthen Road. Thurcroft, near Rotherham, whose tender figure was £117,885.

BOURNEMOUTH STORE ALTERATIONS.—
BOURNEMOUTH STORE ALTERATIONS.—
James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth, have been awarded a contract worth £182,260, for alterations and extensions to premises at 2-12 Commercial Road, Bournemouth, for Bobby and Co., Ltd. The architects are Healing and Overbury, Rodney Lodge, Rodney Road, Cheltenham.

LYONS' EDINBURGH DEPOT.— LEAST

Realing and Overbury, Rodney Lodge, Rodney Road, Chelrenham.

Lyons' EDINBURGH DEPOT.—J. Lyons and Co., Ltd., propose to build a £100,000 depot at Sighthill Industrial Estate, Edinburgh. Work will start when planning permissions have been obtained. It will be carried out by H. Pannett, Ltd., 32 Preston Road, Brighton, Sussex. Plans are by Lyons' own staff.

SouthGATE BROOK IMPROVEMENT.—The £294,063 tender of Howard Farrow, Ltd., Highfield Road, Golders Green Road, London, N.W.11, has been accepted by the Lee Conservancy Catchment Board for the Pymmes Brook improvement scheme from Green Lanes to Bowes Road, Southgate, Middx. Included in the scheme is the construction of about 4,350ft. of mass concrete open channel from 16ft. 9in, to 19ft. wide, and the construction of two precast footbridges. N. Medrington is the engineer to the Board. the Board.

the Board.

KIRKCALDY HOUSING. — Kirkcaldy B.C. have accepted the tenders of John Best (Contractors), Ltd., 13 Meldrum Road, Kirkcaldy, amounting to £432,989, for the erection of a total of 251 houses at Chapel. Work is to start immediately.

L.C.C. SCHOOLS CONTRACTS.—The LCC.

Education Committee have accepted tenders for the erection of the following school buildings: Secondary school as continues and Edge, Ltd., 268,300; improvements at Honor Oak, Edge, Ltd., 168,300; improvements at Honor Oak, Edge, Ltd., 168,300; improvements at Honor Oak, Edge, Ltd., 52 Macbean Street, London, S.W.I., £358,834 (Bronek Katz and R. Vaughan, architects); rebuilding primary school at Trundley's Road, Deptford Street, London, W.I., £68,300; improvements at Honor Oak School, Camberwell-Thomas and Edge, Ltd., £60,066.

Melford Sewerage Scheme — The

Melford Sewerage Scheme. The tender of Cubitts and Gotts, Ltd., Westerfield, Ipswich, at £131,003, has been accepted by Melford (Suffolk) R.D.C. for construction of the Glemsford sewerage scheme.

CANTERBURY DEPARTMENT STORE.—A £300,000 contract has been awarded to Richard Costain, Ltd., for the erection of a figure and the contract of t Richard Costain, Ltd., for the erection of a department store at Canterbury, for Ricemans, Ltd. Plans have been prepared by Sir John Burnet, Tait and Partners, 9 Gower Street, London, W.C.1, and quantities by Wakeman, Trower and Partners, 47 Bloomsbury Square, London, W.C.I. The structural engineer is A. E. Beer, 96 St. Georges Square, London, S.W.I. PRESSED STEEL FACTORY. — Holland & Hannen and Cubitts (Scotland), Ltd., have just commenced work on a £14m factory at Linwood, Renfrewshire, for the Pressed Steel, Co., Ltd. The building, to be completed within 12 months, will house assembly, paint and trim shops for the production of car bodies for the new Roots Group plant.

Group plant.
STRAND REDEVELOPMENT. Good man STRAND REDEVELOPMENT.—Goodman Price, Ltd., 3 Portsmouth Street, London, W.C.2, have begun the demolition of Illustrated House and adjacent buildings in the Strand, London, W.C.2, where a comprehensive development is proposed by Capital and Counties Property Co., Ltd. The architects are Arthur Swift and Partners, 21 Upper Grosvenor Street, London, W.1.

## IMPROVEMENT OF TAMAR BRIDGE APPROACH

#### New Diversion to Cost £135,000

To improve the western approach to the new bridge being built over Tamar at Saltash in Cornwall, the Route A.374 is to be diverted at Heskyn

Mr. Ernest Marples, Minister of Transport, has made a 75 per cent. grant towards the estimated cost of the scheme (£135,080), and is is hoped that the work will be finished by the end of the year. The new diversion will be 930yd. long

and will have a two lane carriageway with an extra lane for ascending traffic on the steepest gradient. This will have a maximum inclination of 1 in 10.

mum inclination of 1 in 10.

Two new bridges will be constructed, one of 30ft, span over the river Tiddy, which has to be diverted over part of its length, and the other to carry the new road over an existing highway.

The scheme has been designed by the county surveyor of Cornwall (Mr. A. Ashworth, B.Sc., A.M.Inst.C.E.), and the roadworks will be carried out by direct labour.

A contract will be let for the construction of the bridges.

### Lake District Bridge

A new bridge is to be built over the River Derwent at Portinscale on the Keswick-Cockermouth Road (A.594). The Minister of Transport has made a grant of £111,252 to Cumberland County Council towards the cost, estimated at £150,760, of the bridge and new approach roads

which will by-pass the village of Portinscale.

The by-pass will be 1,267yd. long with a 33ft. carriageway and two 6ft. verges. The bridge will be a masonry arch structure with a clear span of 80ft. A single span masonry arch footbridge is to be erected on the site of the old bridge. masonry arch footbridge is on the site of the old bridge.

The scheme has been designed by the county surveyor of Cumberland, Mr. F. L. Broughton, B.Sc.(Eng.), A.M.I.C.E.

Work is expected to start later this year and will be carried out by contract. The scheme will take about 18 months to complete.

## ARCHITECTS' OLD PEOPLE'S HOMES IN SURREY

## Frenchlands Hatch Scheme Now Complete

WORK is now complete on the Architects' Benevolent Society's experimental scheme for the provision of old people's homes at Frenchlands Hatch.

mental strench and services homes at Frenchlands Hatch, East Horsley, Surrey.

This is the first such development carried out by the Society and it has created great interest from other institutes and local authorities. The first phase comprising six bungalows, a warden's house and a social room was completed two years ago, since when a further seven bungalows and a garage for the warden have been built. The architect is Mr. Clifford Culpin, who won an open design competition held in 1956. Both first and second phases were put out to tender and were secured by the same contractor, and it is interesting to note that the cost per dwelling in stage 2 was £2,240 as compared with £1,740 in stage 1.

The buildings are arranged with particular regard to the natural beauty of the

cular regard to the natural beauty of the

site, fitting snugly into the contours and being backed by a belt of trees. They are in two L-shaped blocks forming an open quadrangle with the warden's house and social room as the leg fronting the public

road.

The warden's house dominates the composition and is one-and-a-half storeys high with the upper rooms rising into the roof space. The social room stands out clearly from the dwellings by having a copper covered pyramidal roof. Warden's house and social room are linked by a terrace sheltered by glazed screens.

The competition conditions stipulated that the buildings should be simple in character, and simplicity is the keynote of the design. They also asked for materials that would "not go shabby quickly, but rather improve with age." Well-tried traditional materials are employed throughout, dun-coloured pantiles, red/multicoloured sand faced bricks and deep red

club-headed tile hanging. Against these is set white paint on purpose-made windows reduced, for both economy and harmony,

reduced, for both economy and narmony, to very few types.

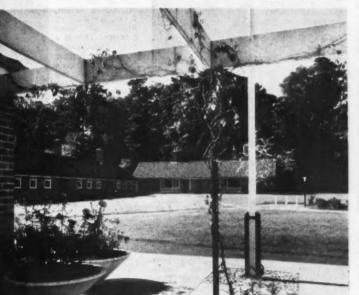
Key to the planning is the reversibility of each of the three dwelling types to suit orientation. Each house consists of an entrance unit and a living unit. The living unit remains in a constant orientation and the entrance unit reverses.

the entrance unit reverses.

A high standard of thermal insulation has been provided and each old person's dwelling has an all-night burning fire in the middle of the plan-space, providing direct living room heating and operating two radiators and a towel rail. Kitchens are well equipped with a porcelainenamelled sink-unit and formica-topped kitchen sobjects.

enamelled sink-unit and formica-topped kitchen cabinets.

The architects were Clifford Culpin and Partners, 39 Doughty Street, London, W.C.1; quantity surveyors, Donald Harwin and Partners, 776 High Road, Finchley, London, N.12; landscape architects, Derek Lovejoy and Associates, I Wellesley Parade, Godstone Road, Caterham; the general contractors were Carlton Contractors, Ltd.. Carlton House, Epsom.



Second stage seen from meeting room terraces

## REDEVELOPMENT OF KNIGHTSBRIDGE INTERSECTION

A REVISED scheme for the redevelopment of the Knightsbridge/Sloane Street/Brompton Street/Brompton Road intersection, London, is now under consideration by the L.C.C., but its final form is not yet

Meanwhile, to avoid delay, the Council's town planning committee have recommended the council to submit to the Ministry proposals for alterations and additions to the Development Plan, defining the area as a comprehensive development area, and to make a compulsory purchase order where necessary for the land required. Most of the freeholds required are already owned by the developers.

The committee have already stipulated the maximum floor areas to be apportioned to the various uses—hotel, flats, shops, testaurants, offices and a cinema—and are satisfied that a suitable scheme can be produced. Comprehensive redevelopment

will make possible a major road improvement based on a large roundabout at the junction of Knightsbridge, Sloane Street and Brompton Road. Terms for dealing with the land to be acquired for the road improvement and the redevelopment of adjacent land have been provisionally agreed with the developers.

It is considered that with the coordination of the road scheme and the redevelopment the property costs to the Council are likely to be substantially less, the development scheme more satisfactory, and the road works completed sooner than if the Council were to undertake the road

and the road works completed sooner than if the Council were to undertake the road improvement scheme independently.

In January, 1959, when the question of the future of the area was previously before the Council, the net cost to public funds was estimated at about £Im. Changes in the scheme may cause this to be exceeded, but the cost will still be far below the cost of direct purchase by the Council of the land needed for the road improvement.

#### BOWATERS ACQUIRE CONTROL OF MODULE PANELS

The Bowater Paper Corporation have acquired a majority holding in Module Panels Ltd., St. Albans. For the past three and a half years that company has been manufacturing the range of acoustic, insulating and decorative ceiling panels marketed through the building products division of Bowaters Sales Co., Ltd.

Mr. C. Geoffrey Cullen, director of the building products division, has been appointed chairman of Module Panels, Ltd., and the other members of the board are Mr. D. McKnight, Mr. A. McKnight, Mr. R. J. Smith and Mr. J. H. Smith.

#### WOODHALL-DUCKHAM COMMENDED

The National Executive Committee of the Royal Society for the Prevention of Accidents have commended Woodhall-Duckham Construction Co., Ltd., on their endeavours in the field of accident prevention. This special commendation was made by the adjudicating panel for the Sir George Earle trophy.

(Concluded from page 867)

Worshipful Company, one, the gridiron being also the hallmark of the Company. Parquet flooring, main stairway and other joinery is also in Afromosia with the exception of the Courtroom. In this, the panelling and flooring is oak. The panelling is particularly fine, and was mostly fabricated on site. One section is from the old hall of the company completed in 1670, and is reputed to date back to the time of Christopher Wren. Three of five brass chandeliers in the courtroom are at least 18th Century.

#### Pre-cast Fibrous Plaster

Ceilings in the main rooms and hallways have been fashioned in pre-cast fibrous plaster by Plaster Decoration Ltd., and are particularly noteworthy of their kind. Walls

plaster by relater Decoration Ltd., and are particularly noteworthy of their kind. Walls and ceilings are decorated in attractive colour schemes, set off by high quality tasteful furnishings. The decor consultants were Edward Zoe and Bankart.

The Pewterers Company is of great antiquity, their history starting in the 14th Century. Their earliest Charter is dated 1473. The first Pewterers Hall was completed in Lime Street in 1496 and was destroyed in the Great Fire of 1666. A replacement was finished in 1670 but as time passed it became a drain on the resources of the Company. It was let for various purposes, was damaged by fire in 1840. Finally it was demolished in 1932. The Worshipful Company moved into temporary accommodation relinquishing their intervened but soon after it the Oat Lane property was acquired.

## Men and Movements

MR. CLIFFORD S. SHAW, M.I.Mech.E., has been appointed assistant managing director of R. H. Neal and Co., Ltd., a

member of R. H.
member of the
Steel group of
companies. After
23 years with K.
and L. Steelfounders and Engifounders and Engineers, Ltd., of which 16 have been spent as technical director, Mr. Shaw is returning to Neals, where as chief engineer he designed the firm's original mobile cranes some 30 cranes some 30 years ago. While with K. and L. Steelfounders, he designed the range of Jones mobile cranes.



Mr. A. R. Dale Harris has resigned his directorships of The Unit Construction Co., Ltd., and Pierhead, Ltd., to take up his appointment as managing director of Edendale Properties, Ltd.

Mr. J. H. Thornton, M.I.C.E., has been

wabcock and Wilcox, Taylor Woodrow atomic power power group. Mr. Thornton was chief civil engineer in the group resi-dent superinten-dent's department dent's department at the nuclear power station at Hinkley Point, Somerset, from December, 1957, to December, 1959 and from then the positive features of the power of the powe



J. H. THORNTON

and from then until February 1 this year, has been assistant group resident superintendent.

Mr. H. G. Smallwood has been appointed a director, and Mr. P. B. Hirst a technical director, of Johnston Brothers (Engineering), Ltd.

The new president of the Society of Motor Manufacturers and Traders for 1961/62 is Mr. D. G. Stokes, sales director of the Leyland group. He succeeds the Hon. Geoffrey Rootes, deputy chairman and managing director of the manufacturing division of the Rootes group, who now becomes deputy president. Mr. L. G. T. Farmer, vice-chairman of the Rover Company, Ltd., and Mr. G. E. Liardet, chairman and managing director of the Simms group, were elected vice-presidents.

The Minister of Health has appointed Mr. H. S. Oddie, managing director of Leyland Construction Co., Ltd., as a member of the Liverpool Regional Hospital

William Press and Son, Ltd., have appointed Mr. George Atter as sales promotion executive. Mr. Atter comes to the company from the Stanton Ironworks company from the Stanton Ironworks Co., Ltd., where he spent the past 30 years, the last few years of which was as Birmingham area manager.



G. ATTER

Mr. J. E. Chittenden, formerly with College Motors, Ltd, Bristol, as industrial sales manager, has now joined Consolidated Pneumatic Tool, Co., Ltd., Bristol.

Mr. J. Maurice Laing, managing director of John Laing and Sons, Ltd., has been appointed a member of the docks and harbours enquiry committee, set up by the Minister of Transport.

Retaining his appointment as general manager, Mr. R. R. Beaumont, A.M.I.C.E.. has been appointed a technical director of Hadsphaltic Construction, Co., Ltd.

Mr. R. Dingwall, chief engineer, and Mr. W. V. Golding (raw materials and transport superintendent, of Dorman Long (Steel), Ltd.) have been appointed special directors of that company and also of the parent company, Dorman, Long and Co., Ltd.

The Wayne Kerr Laboratories, Ltd., have appointed Major E. R. Wilcox to the post of research and development liai-

son officer. Immediately prior to his retirement from the Royal from the a n d Engi-Mechanical neers, Major Wilcox was con-cerned with test and instrumentation aspects military electronic equipment and weapon systems. weapon systems.
His final appointment was as
deputy assistant
director with the
Electrical and N



MAJ. E. R. WILCOX

Mechanical Engineering Directorate of the War Office.

Mr. L. A. C. Fuller, B.Sc. (Eng), A.C.G.L. has been appointed to the board of Taskers of Andover (1932), Ltd. He took up his position as assistant to the managing director on May 1.

Mr. A. T. Hoile Mr. A. T. Holle has been appoin-ted to the board of Gould Plant, Ltd., Newport, Mon., as sales director. This is a new appointment created to further the company's progress in the contractors' plant field, in South Wales. Mr. A. J. Woodley has been assigned the duties of depot manager.



A. T. HOILE

#### MUNICIPAL.

Mr. Lawrence Lyons, previously city engineer and water engineer at Lancaster, has taken up the appointment of engineer and manager to the recently formed Lune Valley Water Board.

The new deputy borough engineer at Doncaster is Mr. Geoffrey Read, previously chief assistant in the borough engineer's department at Harrow.

Mr. J. Hankey, engineer and surveyor to Millom (Cumberland) R.D.C., has retired.

Mr. William Morris, city engineer at Hull for 24 years, has retired after a total of more than 30 years with the Council.

Mr. A. Chapman, formerly deputy engineer and surveyor to Atherstone (War.) R.D.C., will succeed Mr. A. S. Northover as surveyor to Kidderminster (Wors.) R.D.C. when the latter retires soon, after 38 years service.

The deputy city architects at Manchester for 14 years, Mr. Sidney Roberts, will succeed Mr. L. C. Howitt as city architect later this year.

## "TRAVELLER" FURNACE FOR SMALL HOMES

A warm-air central heating system for bungalows, small homes and large caravans has been introduced to Britain from Canada by Lincoln Furnaces, Ltd., Oxted, Surrey. The equipment consists of the Lincoln

by Lincoln Furnaces, Ltd., Oxted, Surrey.

The equipment consists of the Lincoln Traveller oil-fired furance, of 45,000 B.Th.U. output, four-inch underfloor galvanised ducting, floor-level diffusers, wall-thermostat and oil-storage tank.

The furnace is contained in a cabinet 55½in. high, 17½in. wide and 22¼in. deep. The air-circulating fan has two-speed control and an output of 486 c.fm. All models are fitted with a draft booster which, it is stated, gives maximum efficiency to the burner by creating a positive air supply for smokeless combustion. The chimney serves merely as a channel to carry away waste products of combustion.

## SAVILLES APPOINTED INTERNATIONAL DEALERS IN SOUTH-WEST

SAVILLE (TRACTORS) LTD., have been appointed dealers for International construction equipment in the south-west of England. Temporary premises are already established at Exeter and Salisbury and larger scale facilities for a more extensive

larger scale facilities for a mot sales and service organisation in the area are planned.

For many years Savilles have been major dealers in International construction equipment with headquarters at Stratford-on-Avon, London, Cardiff and Belfast. They will now cover an area of some Cardiff and Belfast. They will now cover an area of some 30 counties roughly south of a line Aberystwyth-Yarmouth. In addition, through their associate company in Dublin, they are sole distributors in

they are sole distributors in Ireland for International Harvester Export Company.

The photograph shows Mrs. E. J. Saville, chairman of Lumley-Saville, Ltd., signing the contract which makes Saville the International

dealers for south-western England. In attendance are, from the left, Mr. P. Barrett and Mr. G. Hill, Saville's managing director and secretary, respectively, and Mr. H. D. Frymire, sales director of International Harvester Company of Great Britain, Ltd.



## PRIVATE SCHEME FOR EIGHT-STOREY FLATS AT CHELSEA

## Sun Balcony To Each Dwelling

AN eight-storey block of luxury flats is to be built, together with ground-A is to be built, together with ground-floor showrooms and a basement car park, at Drayton Gardens, Chelsea, Lon-don, S.W.10, under a private develop-ment scheme for which planning per-mission has recently been granted,

mission has recently ocen graftled,
The scheme is promoted by Park Investments, Ltd., 98 Park Lane, London,
W.I. whose architects are Richard Seifert and Partners, 34 Red Lion Square, London,

forming a structural

The main entrance The main entrance to the flats is to have to the flats is to have to mosaic panels in full colour, and the brickwork, facing Drayton Gardens frontage, will be faced in grey marble with aluminium doors, frames and canopy, while the exposed columns will posed columns will be faced with white

The ground - floor showrooms will be constructed within a reinforced concrete frame, with cavity and panel walling in brickwork, sup-ported on a rein-forced concrete rereinforced

taining wall and footing to the perimeter of the basement. Floors to the basement and ground floor will also be of solid reinforced concrete.

Cladding to the main block will com-prise a metal grid for the full height, con-taining metal windows and coloured glass panel aprons, which will facilitate natural cleaning. In contrast, insulated cavity wall panels comprising a brick inner skin and precast concrete panels with selected granite aggregate, will form the outer skin. One-inch woodwool insulation is to be used as permanent shuttering behind the window aprons.

It is understood that the building con-tract is now out to tender.



Artist's impression of completed flats

## NEW SURVEY FOR LONDON Electronic Computor To Analyse Changes

A COMPLETE town planning survey of the County of London has just begun. Starting at the same time as the national census, 25 L.C.C. surveyors will, between them, be visiting more than a million houses, flats, shops, offices, factories and warehouses, in the next 18 months. They are working from a mobile office, and will make their way systematically across London from Hammersmith in the west to Woolwich in the east.

London from Hammersmith in the west to Woolwich in the east.

A similar survey was made in 1947 and formed the background of the 1951 County of London Development Plan for the rebuilding of London up to 1972.

The second survey completed in 1957 showed what changes there had been in the

use of land and buildings in the 10 years use of land and buildings in the 10 years from 1947. This information led to the proposals for modifying the Development Plan which was submitted by the Council to the Minister in March 1960, and were considered at the Public Enquiry at County Hall throughout the autumn of 1960

The new survey will show what changes there have been since 1957, and an electronic computer is to be used in analysing these and relating them to the data on population, housing and employment which population, housing and employment which the census will reveal, so providing informa-tion which will be used in formulating the next Review of the Plan to carry it another step forward to 1980 and beyond.

#### INSTITUTION OF HIGHWAY ENGINEERS' ELECTIONS

THE following elections took place at the Institution of Highway Engineers on April 7, 1961:

Members:

C. C. Bethell (director, Bethell and Sons, Ltd);
F. D. Blaker (senior engineer, Ministry of Transport); D. T. Bradshaw (city engineer, Newcastle upon Tyne); J. G. Brand (town engineer, Windhoek); W. K. Laing (chairman, John Laing and Son, Ltd.); F. J. P. Lilley (managing director, Francis J. C. Lilley, Ltd.); H. R. Mayston (deputy municipal engineer, Dar Es Salaam); H. N. Ginns (divisional road engineer, M.O.T.); N. A. Pritchard (chief assistant engineer, Bedford B.C.); G. Race (chief resident engineer, West Riding C.C.); J. W. R. Rumsey (senior assistant engineer, Windsor B.C.); G. T. Russell (chief assistant engineer, Reigate B.C.); J. A. Stirling (managing director, J. A. Stirling, Ltd.); T. E. H. Williams (reader in highway engineering, University of Durham); A. Williams (senior engineer, Scott and Wilson, Kárkpatrick and Partners); W. D. Williams (senior resident engineer, Staffordshire C.C.); J. Wilson deputy borough surveyor, West Bromwich B.C.); G. Wood (partner, Ove Arup and Partners).

#### Associate Members:

B.C.); G. Wood (partner, Ove Arup and Partners).

Associate Members:

E. J. Benford (assistant engineer, Solihull B.C.); W. J. Bevan (principal assistant engineer, West Bromwich B.C.); M. R. Biddle (engineering assistant, Atherstone R.D.C.); D. M. Boston (senior engineering assistant, Harrow B.C.); L. A. Boyce (engineer) port-of-Spain Corporation); R. T. Briggs (engineering assistant, Nottinghamshire C.C.); A. Clague (chief engineering assistant, Crayford U.D.C.); A. D. Clark (chief assistant engineer, Bolton B.C.); J. G. Clegg (senior assistant engineer, Slough B.C.); J. B. Collins (senior engineering assistant, Ledes City); J. C. Cooper (assistant engineer, Bridge-Blean R.D.C.); A. Damodaran (junior engineer, Madras State Highway); D. Dearlove (senior assistant engineer, Hunting-donshire C.C.); C. Elliott (chief assistant engineer, Doncaster R.D.C.); J. R. Fishburn (engineering assistant, Barnet U.D.C.); S. W. Fitton (engineering assistant, Norfolk C.C.); N. R. Fox (assistant engineer, Bristol B.C.); J. B. Hardy (senior assistant engineer, Malvern U.D.C.); I. I. Inwang (executive engineer, Cardiff City); A. S. Jones (executive engineer, P.W.D. Sierra Leone); J. B. Little (deputy engineer, Tyldesley U.D.C.); T. T. Long (assistant engineer, Noroshire C.C.); C. McKay (senior assistant engineer, Shropshire C.C.); C. McKay (senior assistant engineer, Bristol City); R. E. Noble (consulting civil engineering assistant, Crayford U.D.C.); F. O. Middleton (senior assistant engineer, Bristol City); R. E. Noble (consulting civil engineer); G. H. Parsons (assistant laboratory engineer, West Riding C.C.); D. J. Pedder (engineering assistant, Oxfordshire C.C.); C. J. F. Stinson (engineering assistant, Robert F. Earley and Partners); W. C. Roberts (chief engineering assistant, Toxfordshire C.C.); D. J. Pedder (engineering assistant, Oxfordshire C.C.); D. J. Probert (engineering assistant, Robert F. Earley and Partners); W. C. Roberts (chief engineering assistant, Graphor B.C.); D. J. Probert (engineering assistant, Robert F.

#### A diffrator

K. D. Coe (area manager, Limmer and Trinidad Lake Asphalt Co., Ltd.); S. Morgan (director, St. Ives Sand and Gravel Co., Ltd.).

### ST. GILES CIRCUS IMPROVEMENT L.C.C. Invite Tenders

London County Council are now inviting tenders (see page 841) for Contract 1 of the St. Giles Circus (Holborn) improvement, involving the southern arm of a new roundabout and the widening of the adjacent part of Charing Cross Road on the east side.

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#### Trade and Company News

## AVELING-BARFORD DUMPERS ON MAPLE LODGE SITE

## **Demonstration Under Operating Conditions**

TWO machines from their range of dumpers were recently demonstra-ted under operating conditions by Aveling-Barford, Ltd., Grantham, on the site of the Maple Lodge sewage disposal works extensions, near Rickmansworth,

Herts.

The dumpers on show were the SL270 model, with a 13½ ton payload, and the SR, a smaller machine with a 6 cu. yd. capacity. The haul involved was over a distance of about 1,000yd., the load consisting of a peat material excavated from the site of proposed sludge beds, and conditions generally were muddy and difficult.

The extensions to the sewage disposal works, which are being carried out for the West Herts, Main Drainage Authority will

West Herts. Main Drainage Authority, will include the construction of 12 sludge drying beds, a dried sludge storage area, pump houses, garage blocks and road-

works. works.

Part of the site of the work was formerly a controlled refuse tip and the excavation of the site to the level of the drying beds will entail the removal of some 95,000yd. of peat and compacted refuse.

Despite difficulties with ground water, substantial progress has been made since site work commenced in January, 1961. Three 6in, and two 4in, pumps are in operation 24 hours a day and, as earthmoving progresses, more pumping sets will be brought in. At present between three and four million gallons of water are being pumped off the site into the River Colne every 24 hours, and some five miles of porous pipes will be laid to help dewater. If pumps were stopped for a period of about half a day, the excavated area of some 10 acres would be flooded to a depth

some 10 acres would be flooded to a depth of 2ft.

The 12 sludge beds are in two adjacent blocks; six will be 1,187ft. long and the others 1,280ft. long. All the beds will be 40ft. wide. Each bed will be separated, alternately, by either a plain dividing wall or by a double wall, forming a channel to draw off the sludge liquor.

These reinforced concrete walls have to

be constructed with great accuracy because the tracks of the sludge lifting machinery will eventually run along them.

Into the construction of the drying beds will go some 9,000yd. of concrete, 75,000 sq. yd. of two coat asphalt, 24,000 lin. yd. of tiles, 30,000 cu. yd. of gravel filter media. Five thousand lin. yd. of 9in. and 10in. diameter spun iron pipes will also be laid

Consulting engineers for the scheme, which is estimated to cost £560,000, are John Taylor and Sons, Artillery House, Artillery Row, London, S.W.l, and the contractors are Ruddock and Meighan, Ltd.. Burford House, Harrow View,

#### **EXPANDED METAL INTRODUCE** U.S. PARTITIONING

An American system of partitioning, featuring speed and flexibility, is to be manufactured and marketed in this country on a "supply and fix" basis by The Expanded Metal Co., Ltd., Burwood House, Caxton Street, London, S.W.l.

Simple to erect, the system, which will be known as Permalock, is made from a system of lightweight cold roll-formed galvanised steel sections and assembled into a rigid framework. The partition is usually clad with half-inch thick panel board to give an overall thickness of less than 3½in., and a wide variety of finishes are available.

are available.

Partitions can be installed to give a half-

Partitions can be installed to give a half-hour or one hour fire resistance grading or can consist entirely of incombustible framing and facing materials. Light in weight, the assembly is strong and stable, and the completed units can be an effective form of soundproofing, state the manufacturers. The cavity between the panel board facings allows access for electrical wiring or other con-cealed services.

A complete service for installation of the partitioning is provided by the manu-facturers, as well as design and prepara-tion of office layout schemes if required.

## News from the Boardroom

SIR HALFORD REDDISH, chairman The Rugby Portland Cement, Co., Ltd., will have this to say about recent legislation at the company's annual general meeting on June 2:—

Although we in the cement industry have been successful before the Restrictive Practices Court, I do not alter my view that this particular, indeed in many respects peculiar, piece of legislation—the Restrictive Trade Practices Act—is largely misconceived: and not only for the obvious reason that it makes little sense so long as the restrictive practices of some of the as the restrictive practices of som trade unions remain untouched.

In this country we proclaim our belief In this country we prociaim our belief in capitalism, in a free enterprise economy, yet we continually produce legislation that is tantamount to an apology for it. If some of the recommendations made to the Comof the recommendations made to the Conpany Law Committee ever get embodied
in a future Companies Act there will be a
further illustration of this peculiar feature
of our national life. It is now nearly 250
years since a prospectus was published
offering shares in a company formed "to
carry on a design of more general advantage and of more certain profit than any
undertaking yet set on foot." It couldn't
be done today, but what really is wrong
with it? No one is forced to subscribe,
and the man who did would probably have
a better run for his money than he would
get by betting on horse-racing, which to
my simple mind is the last word in fatuous
folly. Yet we have just extended the facilities for such betting.

As a nation we are often regarded by

As a nation we are often regarded by other countries as illogical. I am tempted to go some way towards agreeing. Legistion will not save a fool from his folly, but may severely restrict the enterprise we need to encourage.

THE turnover of the Taylor Woodrow group of building and civil engineering companies in 1960 (excluding that of associated companies) was £334 million, an associated companies) was £33 million, an increase of £4 million on the previous year, it is disclosed by the chairman, Ma. Prawa TAYLOR, in his 26th annual statement to shareholders. Profits, after taxation, were £446,003, compared with £702,812 as reported in the Taylor Woodrow statement of March 29. Mr. Taylor says "This position is in the main attributable to the unfavourable weather conditions experienced on building and civil engineering sites in the United Kingdom during the year, coupled with continuing intensive competition which adversely affected profit margins."

Overseas, too, international competition

Overseas, too, international competition for suitable contracts was particularly in-tense, and there was an increasing tendency for overseas employers to require extended credit terms of payments which could not reasonably be met by British contractors.

Mr. Taylor emphasises the necessity of judging the results of a building and civil engineering business over a number of years rather than a single year. A final dividend of 7½d. is recommended (same), as announced also on March 29. The annual general meeting is on June 6.

COMPANY RESULTS Truscon, Ltd.—Trading surplus for the year ended Dec. 31. 1960, £160.613 (£210.594). Balance after tax, etc., £56,186 (£68.575). Ordinary dividend 7½d. a share (same).

Trollope and Colls, Ltd.—Group net profit for the year ended Dec. 31, 1960, £313,195 (£256,197), after tax of £292,700 (£287,802). Dividend 15 per cent. and 5 per cent. boust

Babcock and Wilcox, Ltd.—Group profit. before tax, for 1960, £890,584 (£523,154). A final dividend of 4½ per cent. maintains the total for 1960 at the reduced 9 per cent. (13 per cent.) rate paid for 1959.

The Limmer and Trinidad Lake Asphil Ce. Ltd.—Trading surplus (including investment income) for 1960, £873,534 (£821,928). Group net profit £304,514 (£293,029). Proposed final dividend 13 per cent. (14 per cent.)

### SEVEN MOWING UNITS ON NEW COMBINATION

MOWER combination for large scale mowing operations, comprising a wheeled tractor with seven wing cutting units, is now being marketed by Horwool (Romford), Ltd., Upper Bedfords, Lower Bedfords Road, Romford, Essex.

The cutting width of each unit is 30in. At the touch of a lever, the driver of the tractor, which is a Worthington Model can select any cutting swath required. Either three, four, five, six or seven

nits can be used. All the outboard units can be hydraulically lifted to clear obstruction. In the cutting position the units float freely and follow ground con-tours. When raised for transportation they are lifted high enough for the trac-tor to climb kerbs.

Control valves are next to the steering control valves are next to the steering wheel. These hydraulic valves are of the three-section type for five-gang units and five-section for seven-gang units. For cutting up to the kerb and outboard mower overhangs the kerb and is held in the proper cutting position by the hydraulic system.



The mower combination

# Trade and Company News

## CAT. 631A WHEEL TRACTORS AT WORK IN BRITAIN

SEVERAL of the new 631A wheel ractor-scrapers recently announced Caterpillar Tractor Co., Peoria, inois, U.S.A. are now at work in itain. The two-wheel 631A and the four wheel 630A announced at the same time, both feature an exclusive torque divider power shift transmission.

divider power shift transmission.

Both machines are powered by a completely new design, four-valve-in-head, diesel engine having a maximum rating of 420-hp, and a flywheel rating of 335-h.p. 420-h.p. and a flywheel rating of 335-h.p. Fast cycle times are ensured by top speeds of 41 miles per hour for the 630A, and 31 miles per hour for the 631A. Other machine features include specially developed 28-ply 29.5 by 35 tyres, "live" air-actuated cable controls that reduce operator effort, advanced design steering systems, and a high degree of service accessibility.

#### Scraper Design

Scraper Design

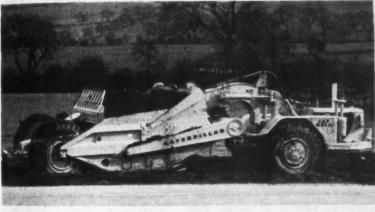
Scrapers are of lowbowl design with a struck capacity of 21 cu. yd. and a heaped capacity of 28 cu. yd. Refinements to the basic lowbowl concept permit corner voids to be filled without staying excessively long in the cut. In addition to the 630A and 61lA tractor-scraper units, Caterpillar have also announced a new 482C scraper for use with the 630A tractor. The 482C scraper

has a capacity of 35 cu. yd. heaped and 27 cu. yd. struck, and is for use under special job conditions.

#### Torque Divider

A primary consideration in the design of the new tractor-scrapers has been the matched development of the torque divider power shift transmission with the new D343 diesel engine. To "shift", the operator need only move the selector lever to one of three speed range positions. Within each range, changing power requirements are met by the most appropriate of three automatically selected "drives"—torque divider drive direct drive and overorque divider drive, direct drive and over-

Torque divider drive is the first selected Torque divider drive is the first selected in each speed range, sending 25 per cent. of engine torque through the converter and 75 per cent. directly to the power train. As travel speed increases, the unit shifts automatically to direct drive and then to overdrive. A dash-mounted indicator shows the operator when to shift to the shows the operator when to shift to the next higher speed range. A unique feature of this arrangement is the combination of planetary gear groups with a torque converter, allowing utilisation of high torque multiplication when power needs are greatest, then automatic shifting to the more efficient direct drive and over-drive accorditions permit. as conditions permit.



613A at work on Sawley diversion and improvement scheme, West Riding

#### FIBREBOARD PALLETS CUT HANDLING COSTS

NEW systems of unitised load hand-I ling using thin fibreboard sheets have been announced by The Phoenix Timber Co., 70/74 City Road, London,

E.C.I.

The fibreboard sheets, made primarily of semi-chemical hardwood pulps and supplementary long fibres, are specially produced to have maximum rigidity and tensile strength. There are two basic systems, the "Poke Pak" and the "Glide Pak," although a number of variations of each is available to cope with special requirements. The "Poke Pak" system uses conventional pallets in conjunction with the fibreboards. The pallets are modified by fixing bearers to their loading surfaces to allow the forks of a lift-truck to enter between pallet and fibreboard.

When a poke palleted load is removed

pallet and fibreboard.
When a poke palleted load is removed from the warehouse stack, both the modified conventional pallet and the "Poke Pak" are withdrawn, the forks being placed under the wooden pallet in the usual way. When loading onto vehicles, the conventional pallet can be left on the floor of

the factory or warehouse and the "Poke Pak" with the load placed on the back of the vehicle.

Where considerable quantities of materials are being handled, the use of a push-pull attachment on the fork-lift truck, together with a "Glide Pak" enables con-ventional pallets to be dispensed with altogether.

altogether.

The "Glide Pak" is a fibreboard sheet which has a handling flap. This flap is held by the push-pull attachment on the fork-lift truck, and by this means loads can be speedily placed on or removed from stacks or vehicles. The sheets are specially manufactured to have the extra high tensile strength required to allow the push-pull attachment to operate. attachment to operate.

The fibreboard pallets are sent with the ads and, if so desired, their cheapness also allows them to be treated as expendable. Major savings in handling costs are shown where there is a regular traffic within a company, and also where semi-finished products are regularly moved to another factory for further processing or despatch.

In order to obtain maximum rimpull during loading, the speed range selector lever can be placed in a special loading range position. This holds the transmission in torque divider drive, and permits matching scraper speed to the pusher throughout loading out loading.

To meet transmission power require-ments, the diesel engine has been designed to have two governor balance points. This has "flattened-out" the horsepower curve and results in the engine developing a high level of horsepower at the time automatic shifts take place

shifts take place.

Individual porting of intake and exhaust valves is a special feature of the new Caterpillar four-valve-in-head diesel engine. By connecting each valve directly to the manifold rather than in series, the engine's breathing characteristics are greatly improved. Individual porting ensures a maximum and air moving through intole.

proved. Individual porting ensures a maximum amount of air moving through intake valves and a more efficient exhaust system. Cooling of intake air further improves the engine's performance. An aftercooler makes intake air more dense after passing through the turbocharger. The denser air results in a greater amount of oxygen in the firing chamber. A pressure-ratio control system on the turbocharger permits delivery of maximum amounts of air over a wide range of engine lug.

The six-cylinder D343 engine has a bore and stroke of 5.4in. by 6.5in. with a displacement of 893 cu. in.

#### Air-Actuated Controls

Scrapers are operated by an air-actuated, double drum cable control. The unit is driven by a live power shaft directly off the engine, providing full cable control whenever the engine is running. The completely self-energising cable control brakes have large conceived. have large capacity and precise modulation, with more accurate scraper control, result-ing from the use of 720 degree wrap brake

### INSULATED STEEL CLADDING

Insulated steel sidewall panels, which are assembled during erection in the field are being produced by the Republic Steel Corporation, 405 Lexington Avenue, New York 17.

York, 17.

The panels are constructed by sand-wiching a layer of insulating material, such as fibreglass, between two sheets of 24in. Ferrobord or galvanised ribbed siding. They are furnished, painted or galvanised, in widths of 2ft. and to 40ft. in length. Interlocking side joints are so designed as to blend with the fluted design of the namel. panel.

Gauges range from 18 to 26, and the assembled panels are said to have a heat transmission co-efficient of .18.

#### ADHESIVE JOINS POLYETHER **FOAM**

A new adhesive, Evo-Stik "Impact" 633, consisting of a one-part rubber/resin formula, has been developed by the Industrial Adhesives Division of Evode Ltd., Stafford, to provide a strong resilient bond when joining polyurethane or polyether foam to materials such as fabric, wood, metal etc. It does not affect the micro-cellular structure of the foam, and will provide a bond between two pieces of foam without causing any hardening effect at the joint. at the joint.

Trade and Company continues on page 891. Sub-sequent articles include £102.000 Mansfield Factory of Timber Con-struction (p.893); Talking of Safety, by "Dragee" (p.894); 30-acre Redevelopment Scheme at West Ham (p.895); New Bank Buildings Com-pleted in Freetown, Sierra Leone (p.897); American Multi-storey Car Park Built Over Roadway (p.899).

## **Gurrent Constructional** Activities

**PROJECTS** CONTRACTS AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and con-tracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the Journal.

# BUILDING AND DECORATING (See also Housing Schemes)

Ashington, Northumb.—C.C. propose the ection of an old people's home. Estimated erection of cost £80,000

erection of an old people's home. Estimated cost £80,000.

Ayr.—Dean of Guild Court have approved the erection of a maintenance shop and compressor house at West Sanquhar Road, for Scottish Stamping and Engineering, Co., Ltd., Neptune Works, Ayr. Estimated cost £28,500.

Aylesbury, Bucks.— B.C. recommended to apply for sanction to borrow £10,000 for the erection of further garages at Council dwellings; negotiate a tender with Drabble Construction, Ltd., Cannon Street, Wellingborough, Northants., for the construction of a factory at each of the Gatehouse and Stocklake industrial estates.

B.C. recommended to approve plans subject to conditions, for the erection of shops and office block at George Street for Burtley Development Co., 38 Seymour Street, London, W.I.; offices and stores adjacent to Park Laundry, Park Street, for William Press and Son, Ltd., 22 Queen Anne's Gate, London, S.W.I; new factory buildings at High Street for Nestle and Co., Ltd.

Bath, Som.—City Council to apply for sanc-

buildings at Figure 20.

Ltd.

Bath, Som.—City Council to apply for sanction to borrow £19.600 to adapt 3, 4 and 5

North Parade Buildings as a mental health

North Parade Buildings as a mental health centre.

Beddington and Wallington, Surrey.—B.C. recommended to approve, in principle, preliminary outline sketch plans for the extension of the central library comprising the construction of an additional storey over the existing building, estimated cost £33,000 (Robert Atkinson and Partners, architects, 13 Manchester Square, London, W.1); prepare scheme for the erection of a single-storey restaurant building to replace the former Grange Mansion, £30,000 (W. F. Fidgen and Son, quantity surveyors, 28 Eccleston Square, London, S.W.1).

Berwick, Northumb—C.C. propose the erec-

Berwick, Northumb.—C.C. propose the erec-on of an old people's home. Estimated cost

Bexley, Kent.—B.C. recommended to pre-pare alternative layout scheme for the con-struction of covered swimming baths at

Crook Log.

Birkenhead, Ches.—B.C. to prepare plans for the erection of a chemical engineering department at the Technical College. Estimated cost £170,000.

Bridgwater, Som.—Home Office have approved scheme for the reconstruction of the Court House Buildings for B.C. Estimated cost £10,000.

Court House Buildings for B.C. Estimated cost £10,000.

Bromley, Kent.—B.C. recommended to appoint F. H. Wood and Partners, 19 Charing Cross, London, W.C.2, as quantity surveyors for the erection of a pavilion at Norman Park, estimated cost £5,550; invite tenders from selected contractors for the provision of approximately 100 prefabricated garages at various housing estates.

Canterbury, Kent.—City Council have approved layout plans for the erection of 11 garages at Whitehall Close.

Cardiff.—Ministry approval has been received and provisional sketch plans are being prepared for the erection on a new block and wing at Cathays Park, for the National Museum of Wales. T. Alwyn Lloyd and Gordon, 6 Cathedral Road, Cardiff, are the architects, L. C. Patterson, W. T. Season and Co., 11 Cathedral Road, Cardiff, are the quantity surveyors, and M. McCann and Partners, 11 Cathedral Road, Cardiff are the heating and electrical consultants. Estimated cost £375,000.

Chelsea.—L.C.C. approved a scheme for the erection of a new fire station, incorporating

district surveyor's offices, at King's Road, Estimated cost £118,700.

Chippenham, Wilts,—B.C. recommended to invite tenders from selected contractors for the reconstruction of the eastern end of Yelde Hall; prepare scheme for submission to Ministry for approval for the improvement of a further 50 houses.

Colchester, Essex.—B.C. recommended to approve amended layout plans for the erection of new building works depot at Gosbecks Road.

B.C. have prepared revised plans for the proposed swimming pool. Estimated cost £130,000.

proposed swimming pool. Estimated cost £130,000.

Dewsbury, Yorks.—M.E. have approved plans for extensions to Shaw Cross C. School, Estimated cost £18,900.

B.C. recommended to apply for sanction to borrow £2,019 for provision of 11 highway passenger shelters.

Dover, Kent.—Co. E.C. have approved scheme for improvements to the sanitary accommodation at Archeliffe Primary School. Estimated cost £2,500.

Dronfield, Derbys.—U.D.C. have granted provisional approval for the erection of new church hall and presbytery on site at Green Lane, for Father Emil Puttman, The Presbytery, Meadowhead, Sheffield.

Dundee, Angus.—Mrs. J. Adams, 127 Dundee Road. Broughty Ferry, Dundee, is the architect for a proposed new club at Thornbank Street for Old People's Welfare Committee. Estimated cost £12,000.

Durham.—C.C. considering the erection of a £60,000 mental health centre at Aykiey Heads, Durham City.

Durham.—C.C. considering the erection of a 600,000 mental health centre at Aykiey Heads, Durham City.

Eastry, Kent.—C.C. have approved, subject to conditions, plans for the erection of two police houses, office and two garages with service road at Tothill Street, Minster, for Kent Police Authority.

Falkirk, Stirlings.—Dean of Guild Court have approved the erection of a patternshop store and a coreshop at Castlelaurie Works for Allied Ironfounders Ltd. Estimated cost £8,400.

Glasgow.—Thomson McCrea and Sanders, 212 Bath Street, Glasgow, C.2, are the architects and James Barr and Son, 213 St. Vincent Street, Glasgow, C.2, the quantity surveyors for the erection of a Highlanders' Institute at Berkeley Street, Estimated cost £75,000.

Guildford, Surrey.—A public appeal has been launched for the erection of the Yvonne Arnaud Theatre on the banks of the River Wey, Estimated cost £200,000. Scott, Brownrigg and Turner, 32 London Road, Guildford, are the architects for the scheme.

Halifax, Yorks.—Tenders are to invited next month for factory extensions at Albion Mills for John Mackintosh and Sons. John Mathewson, architect, 33 Alleyn Park, Dulwich, S.E.21; Bond, Foster and Partners, quantity surveyors, 19 Hertford Street, Park Lane, London, W.1, and Frederick S. Snow and Partners, Ross House, 144 Southwark Street, London, S.E.1, are the consulting engineers.

Hastings, Sussex.—B.C. recommended to

neers.

Hastings, Sussex.—B.C. recommended to apply for sanction to borrow £5,970 for the construction of a cafe at West Hill.

Hatfield, Herts.—Tenders are to be invited for the construction of 2nd stage of the depot, Wellfield Road, for R.D.C. Estimated cost

Weifield Road, for R.D.C. Estimated cost 530,000.

Kirkcaldy, Fifes.—Alison and Hutchison and Partners, 4 Rothesay Terrace, Edinburgh, 3, are the architects, James Gentles and Son, 3 Hill Street, Edinburgh, the quantity surveyors and Ian Hunter and Partners, 46 Palmerston Place, Edinburgh, the consulting engineers, for the erection of a swimming pool for B.C. Estimated cost £250,000.

Alison and Hutchison and Partners, 4 Rothesay Terrace, Edinburgh, 3 are the architects for a proposed 25 bedroom hotel on a site beside the existing labour exchange.

Leamington Spa, War.—B.C. recommended to approve proposals for the establishment of a multi-storey car park to the west of Tavistock Street.

Street.

Leatherhead, Surrey.—U.D.C. recommended to proceed with the erection of a pavilion and the demolition of the air-raid shelter at Kingston Road recreation ground. Estimated cost £2,600.

Lewisham.—L.C.C. approved plans for the erection of a home for old people at Boundfield Road. Estimated cost £139,655.

London.—City of London Corporation recommended to approve a scheme for the

redevelopment of the fish, fruit and vegetable section of Smithfield Market, providing for buildings on the four sides of the site, enclosing a central covered area and truck store. Estimated cost £345,000.

Longbenton, Northumb.— A youth centre costing about £20,000 is to be built at Longbenton Methodist Church, Plans are under consideration. The architects are Wilson and Wilson, 23 Leazes Park Road, Newcastle upon Tyne.

benton Methodist Church. Plans are under consideration. The architects are Wilson and Wilson, 23 Leazes Park Road, Newcastle upon Tyne.

Loughborough, Leics.—B.C. recommended to apply for sanction to borrow £4,500 for the erection of public conveniences off the Market Place including the demolition of existing buildings.

Macclessfield, Ches.—R.D.C. recommended to purchase land at Park Lane, Poynton, as site for proposed civic centre and car park.

Manchester.—City Council recommended to approve plans for the erection of four standard-type old people's homes on site at Kirkmanshulme Lane, Longsight; Mauldeth Road West. Chorlton-cum-Hardy; Wythenshawe Road, Wythenshawe and Hall Lane, Wythenshawe.

Midlothian.—C.C. propose to erect the following: A factory of 20,000 sq. ft. with room to expand to 100,000 sq. ft. with room to expand to 100,000 sq. ft. al Addiewell for Miller and Stables Ltd., Edinburgh; and a factory of 20,000 sq. ft. al Eastfield Drive, Penicuik for William Thyne (Holdings) Ltd., Edinburgh, the construction of which is expected to cost between £44,000 and £60,000 and tenders be invited later this month.

Monmouth.—B.C. have approved in principle scheme for the construction of a swimming pool. Estimated cost £10,000.

Motherwell, Lanarks.—William Nimmo, Commercial Bank Chambers, Wishaw is the architect. Fred Smith and Partners, 4 Regent Street, Hamilton the quantity surveyors and Andrew Sproul, 7 Park Circus Place, Glasgow the consulting engineer for the erection of a hotel in Merry Street for Grampian Properties Ltd., Glasgow. Estimated cost £100,000.

Newburn, Northumb.—Plans have been approved for office additions at Wheatleld Road, Westerhope, for Brims and Co., Ltd., City Road, Newcastle upon Tyne, are to erect an icc cream factory at Westerhope. No contract let. The architects are R. Turley and Associates, 46 Jesmond Road, Newcastle upon Tyne, Newcastle upon Tyne, are to erect an icc cream factory at Westerhope. No contract let. The architects are R. Turley and Associates, 46 Jesmond Road, N

Tyne.

Newcastle upon Tyne.—The Norwich Union Insurance Society, Ltd., Norwich, are to erest multi-storey office block at Westgate Road. Newcastle. Outline plans have been approved. City Council is to spend £485,000 on the erection of a new central library, and work is expected to start during the next two years; are considering a £500,000 scheme for the construction of a sports stadium on the site of the Ouseburn tip. With seating capacity for 100,000 people; are to extend the Exhibition Park by taking in 80 acres of the adjoining Town Moor. Dressing rooms for sports, and a cafe will be built on the site, estimated cost £20,000; are considering the erection of a civic theatre.

is to proceed as early as possible with

theatre.

E.C. is to proceed as early as possible with the following minor projects: Sports pavilion at Castle Farm, £6,500; layout of grounds at Stocksfield Avenue School, £5,000; new toilets at Todds Nook and Delaval Schools, £9,000; proposed to the state of the

Alnwick and area health offices at waute Bay.

Sketch plans have been approved for proposed development schemes at Dryburn Hopital and Darlington Memorial Hospital Regional Hospital Board.

Evans, Cartwright and Woollatt, Clarendon Street, Nottingham, are the architects for the redevelopment of offices in Westgate Road, Newcastle, for the Norwich Union Insurance Societies, Norwich. It is proposed to eret multi-storey offices, but it is not known yet when the work will proceed.

Revised plans have been prepared for licensed premises at Kirkwood Drive, for Newcastle Breweries, Ltd., Haymarket, New-

Newcastle breweites, Educ, Ingiliar Ret, Newcastle, Education Committee are to convert Elsevick Hall, Elswick Road, into College of Further Education, and premises in Northumberland Road into teachers' training college. Oxford.—D Armstrong Smith, 37a, Walbook, London, E.C.4, is the architect for the crection of a new spectator stand at Iffley Road ranning ground, for the University of Oxford. Northeroft, Neighbour and Nicholson, Victoria House, Southampton Row, London, W.C.1, are the quantity surveyors, and R. T. James, 6 Lower Grosvenor Place, London, S.W.I, is the consulting engineer.

Lower Grosvenor Place, London, S.W.I, is the consulting engineer.

Portsmouth, Hants.—City Council recommended to appoint W. H. Saunders and Son, W. Commercial Road, as the architects, for the provision of additional accommodation for sub-normal children at Cliffdale Secondary School. Estimated cost £20,000 to £30,000.

Ramsgate, Kent.—Town Planning Committee have approved subject to conditions, plans for the erection of a supermarket on the site of Palace Theatre and Sangers Hotel, 38 High Street, for Central Street, ror Central Commercial Properties, Ltd., c/o Cotton, Ballard and Blow, architects, 5 Baker Street, London, W.I.

May, Finnts.—Garnett and Cloughley, archi-

Dallard and Money London, W.I.

MNJ, Fints.—Garnett and Cloughley, architects, 10 Kinmel Street, Rhyl, have prepared plans for the erection of a new St. Anne's Church on site of the existing one at Vale Road. Estimated cost £20,000.

MNDON, YORKS.—CHY COUNCII recommended is approve in principle, subject to submission of detailed plans for consideration by the Planning Committee, plans for a proposed domnitory block which the C.C. propose to erect adjoining the fire station in Blossom-rate.

st. Paneras.—L.C.C. to carry out the modernisation of Wellesley Buildings, Churchway Dwellings. Estimated cost £6.2,460.

Seaton Valley, Northumb.—M. J. Liddell and Son, 36 Great North Road, Newcastle upon Tyne, are to erect filling and service station with accommodation for staff and manager at Park Lane, Shiremoor. The architects are Waring and Netts, 36 Jesmond Road, Newcastle upon Tyne.

South Shields, Dur.—Plans are being prepared by Marshall and Tweedy, 36 Blackett Street, Newcastle upon Tyne, for the erection of three-storey shop premises in Ocean Road, for London and Northern Properties, Ltd., 5 Benton Terrace, Newcastle upon Tyne.

Southwold, Suffolk.—B.C. recommended to prepare scheme and invite tenders for repairs to the Stella Peskett Memorial Hall.

Stockton-on-Tees, Dur.—Samuel Smith Old Brewery (Tadcaster), Ltd., Tadcaster, are in touch with the Corporation regarding a suitable site for the erection of a residential hotel.

Taunton, Som.—B.C. are proceeding with

touch with the Corporation regarding a suitable site for the erection of a residential hotel.

Taunton, Som.—B.C. are proceeding with the completion of plans for the complete reorganisation of Taunton market.

B.C. recommended to approve in principle plans for the redevelopment of the area between Paul Street and Mary Street by the rection of government offices at the junction of Mary Street and Paul Street; a block of flats with shops or other buildings in Mary Street, and a theatre and multi-storey car park in Paul Street.

Thorne, Yorks. — Doncaster Co-operative Society, Ltd., St. Sepulchregate, Doncaster, are to erect a store in Silver Street, G. S. Hay is the staff architect. Tender not yet invited. Estimated cost £200,000.

Tonyrefail, Glam. — Approval has been stanted for the erection of an extension to the Government advance factory at Gilfach Road (occupied by Royal Worcester Industrial Ceramics, Ltd.),

Walton and Weybridge, Surrey.—Co. Planning Committee have approved U.D.C's. scheme for the construction of a covered swimming gool, with car park for 100 vehicles, at Elm Grove recreation ground, Walton.

Wandsworth.—B.C. recommended to approve proposals for redevelopment of Alston Road, Tooting, by erection of a two-storey block of 10 dwellings.

Wandsworth.—L.C.C. approved the provision of 71 garages and the resiting of the playslock of 10 dwellings.

Wandsworth.—U.D.C. are considering scheme for the construction of a lido on site at the recreation ground.

West Ham, Essex.—B.C. propose the erection of showers and toilet block at Beckton Road playing fields. Estimated cost £4,000.

GAS AND WATER SUPPLY

### GAS AND WATER SUPPLY

Leamington Spa, War.—B.C. recommended to apply for sanction to borrow £3,250 for laying a water main along Tachbrook Road from Grand Union Canal to Market Corner.

#### DEMOLITION

Great Yarmouth, Norfolk.—B.C. recom-mended to invite tenders for the demolition of St. Peters School, Deneside.

Worthing, Sussex.—B.C. recommended to invite tenders for the partial demolition of the water tower, St. Flora's Road, Little-

## HARBOURS, PIERS AND SEA DEFENCE WORKS

Exmouth, Devon.—U.D.C. recommended to approve in principle scheme for cliff protection works at Orcombe Point. Estimated cost

£15,000.

Poole, Dorset. — Lewis and Duvivier, consulting engineers, 14 Howick Place, London, S.W.l, have prepared plans for the construction of a yacht marina at Hamworthy, for West Sussex Marine, Ltd. Planning permission has not yet been granted. Estimated cost £500,000.

cost £500,000.

Port Talbot, Glam.—Plans are being completed for a new sea-wall and promenade to be built around the small housing estate of the Little Warren site at the sea front, for B.C. Estimated cost £20,000.

Wicklow, Eire.—U.D.C. propose repairs to the harbour. Estimated cost £160,000.

#### HEATING AND VENTILATING

Scunthorpe, Lines.—B.C. recommended to approve plans for alterations to the heating and ventilating system and provision of new slipper baths and therapeutic unit at rear of the Public Baths.

#### HOUSING SCHEMES

Aylesbury, Bucks.—B.C. recommended to submit to Co. Planning Committee for approval plans for the erection of 122 dwellings and 90 garages at Oakfield housing estate.

Barnstaple, Devon.—G. Loosemore and Son, Summerland Street, Barnstaple, propose the erection of 45 houses and bungalows at Sunset Heights estate, Hills View.

Basingstoke, Hants.—Co. Planning Committee recommended to approve plans for 22 houses opposite the Barley Mow, Oakley Lane, East Oakley, for Bernard McManus Ltd., 73 Easton Street, High Wycombe, Bucks.

Beddington and Wallington, Surrey.—B.C. recommended to prepare detailed plans, invite tenders and apply to Ministry for grant aid for the conversion of 111 and 113 Woodcote Road into 12 aged persons flatlets with wardens' accommodation. Estimated cost £21,500.

Bermondsey.—L.C.C. approved a scheme for the development of Neptune Street site at a cost of £824,715. A total of 253 dwellings will be provided in two 21-storey point blocks of flats, each served by two lifts and provided with electric under-floor warming; four blocks of four-storey maisonettes, each constisting of three wings arranged in a cluster grouped round a central staircase; and a three-storey block of flats with similar lay-out and access arrangements. The scheme includes 136 tenants' stores, three playing areas, 34 arrangements. The scheme includes 136 tenants' stores, three playing areas, 34 garages, and parking spaces for 45 cars.

Bourne, Liness.—U.D.C. to prepare outline scheme for old people's dwellings at Terrace

rard.

Camberwell.—L.C.C. approved the erection of a two-storey block of 10 one-room flats for old people, 24 garages, and parking spaces for 15 cars at 68 and 70 Champion Hill. Estimated cost £29,300.

Estimated cost £29,300.

Canterbury, Kent.—City Council have approved layout plans for the erection of four-storey maisonnettes and 32 garages off Franklyn Road.

Chelsea. — B.C. recommended to appoint Messrs. E. C. P. Monson, 120 Moorgate, London, E.C.2, as the architects, and Oswald E. Parratt and Partners, Adelaide House, London Bridge, E.C.4, as the quantity surveyors for housing development at 257-277 Essex Road.

Sesex Road.

Cheltenham, Glos.—B.C. recommended to prepare sketch plans for blocks of flats or maisonnettes at Edinburgh Place/Princess Elizabeth Way; approve sketch plans, prepare detailed plans and invite tenders for the erection of 38 flats at Lynworth Place, Lynworth estate.

B.C. recommended to approve plans for 27 flats and maisonnettes in two three-storey blocks and 27 lock-up garages at 19 Clarence Square for G. Wimpey and Co., Ltd., London, W.6.

Cheltenham, Glos.—R.D.C. have approved the erection of six dwellings at Greet.

Clacton - on - Sea, Essex. — U.D.C. have approved, in principle, scheme for the erection of a 13-storey block of 88 flats, Estimated cost £187,000. Detailed plans are to be prepared.

Clutton, Som. — R.D.C. recommended to proceed with the preparation of plans for the erection of 20 bungalows at Townsend.

Dewsbury, Yorks.—B.C. recommended to approve sketch layout plan for the Foxroyd Lane housing site, subject to conditions.

Friern Barnet, Middx.—U.D.C. are awaiting Ministry approval of revised plans for the erection of 355 dwellings at The Avenue redevelopment.

reduction of 355 dwellings at The Avenue redevelopment.

Hampstead.— B.C. recommended to authorise Housing Architect to negotiate a fixed-price tender with John Laing Construction. Ltd., for carrying out the Fleet Road redevelopment scheme, providing for two 14-storey blocks, three five-storey blocks and a two-storey car park.

Hastings, Sussex.—Town Planning Committee have approved, subject to conditions, plans for the demolition of The Mount, Downs Road, and erection on site of a three-storey block of 24 flats, for M. Strickland (Dyer and Overton, surveyors, 7 Havelock Road, Hastings); erection of 30 flats on eight floors with garages in Basement at 57 to 61 Warrior Square, for Llewellyns (Hastings), Ltd. (N. Wyatt, architects, 2 Castle Hill Road, Hastings.)

(N. Wyatt, architects, 2 Casue Harrings.)
Hastings.)
Honiton, Devon.—R.D.C. have approved scheme for the erection of 12 houses on site near the village hall at Branscombe.
Lambeth.—B.C. recommended to appoint.
P. T. Walters and Wheatley, Sicilian House, Sicilian Avenue, London, W.C.1, as the quantity surveyors for housing development at Rumsey Road, Jeffreys Road and Minet Road.

Leathington Spa, War.—B.C. recommended to approve revised plans for eight flats in fourstorey block at Edinburgh Crescent.

Leatherhead, Surrey.—U.D.C. to apply for planning permission and appoint P. Badcock, Fairmile Lane, Cobham, as architect for the erection of aged persona accommodation at the rear of the council offices.

U.D.C. are applying for planning permission for the erection of four flats between 170 and 176 Kingston Road.

Llanelly, Carms.—B.C. have prepared revised layout plans for the erection of 276 houses at Llwynwhilwg.

Londonderry.—Corporation Housing Sub-Committee have approved preliminary plans for 54 dwellings in the Osborne Street—Cross Street clearance area. The scheme will involve the demolition of 28 existing houses.

Maldon, Essex.—R.D.C. have received planning permission for the erection of eight old persons' flats at Queen Street, Southminster.

Margate, Kent.—B.C. recommended to apply for sanction to borrow £33,531 for stage II of development of Millmead Road site.

Northampton.—H. C. Janes Ltd., High Town Road, Luton, have purchased land fronting Boughton Green Road/Harborough Road with planning permission for the erection of 76 detached, 187 semi-detached and 21 terraced houses and 22 two-storey flats.

Pewsey, Wilts.—R.D.C. have approved layout plan for one block of three houses fronting Dewey's Lane estate, Ludgershall.

Saffron Walden, Essex.—R.D.C. have approved third phase of the housing programme, consisting of the erection of 31 bungalows and 12 houses at seven sites.

Scunthorpe, Lincs.—B.C. recommended to negotiate with George Wimpey and Co., Ltd., for the erection of 216 houses, and invite tenders in due course for the erection of 110 houses at Westeliffe estate.

B.C. recommended to approve plans for 92 bungalows and 201 houses, roads and sewers at Scotter Road/Burringham Road, for H. C. Barrett, Birchwood Avenue, Lincoln.

Seascale, Cumb.—John Twiname, Ltd., Allerdale House, Brigham, propose the erection of 80 houses at Wasdale Park.

Slough, Bucks.—L.C.C. approved a

Wigton, Cumb.—R.D.C. received Ministry sanction to build 80 houses this year.
Windsor, Berks.—James Minter and Partners, Ltd., 7 Suffolk Street, London, S.W.I, propose, subject to planning permission, the erection of 11 or 12 14-storey block of flats with swimming pool and tennis courts at St. Leonards Hill.
Worthing, Sussex.—Town Planning Committee have approved, subject to conditions, outline application for 28 terrace houses, comprising one block of six, two blocks of five, three blocks of four, together with 29 garages at plots 1-28 Clarendon Nurseries, Haynes Road, and land between 15 and 19, and 37 and 43 Guildford Road, for Cox Public Works, Ltd. (Fitzroy Robinson and Pariners, architects. 50 Norfolk Square, Brighton, 1); plans for the erection of 27 detached houses and garages, three pairs semi-detached houses and garages, nine detached bungalows and garages. Plots 1-52 junction of Durrington Hill and Arundel Road, A.27, for Pauling and Co., Ltd., 26 Viccoria Street, London, S.W.I (North and Partners, architects, I Warwick Street, London, W.I).

#### PLAYING FIELDS, PARKS, ETC.

Hemel Hempstead, Herts.—B.C. have acquired a site in the Western Neighbourhood for use as playing fields; include in the 1961-62 programme scheme for improvement to the pitches, north of Galley Hill. Estimated cost £1,500.

RIVER AND FLOOD PREVENTION WORKS

Exmouth, Devon.—U.D.C. have approved in principle scheme for the relief of Hooding in in the south-west portion of the town. Estimated cost £125,000.

#### ROADS, BRIDGES AND SITE WORKS

Beddington and Wallington, Surrey.—B.C. recommended to submit to M.T. and C.C. for grant aid, preliminary plans for the reconstruction of Manor Road railway bridge. Estimated cost £60,000.

tion of Manor Road railway bridge. Estimated cost £60,000.

Bexley, Kent.—B.C. recommended to apply for sanction to borrow £3,900 for the construction of a link road from the access to Christ Church to Banks Lane.

Bromley, Kent.—B.C. recommended to approve layour plans and invite tenders for the construction of a car park at Elmfield Road. Estimated cost £19,200.

Chippenham, Wilts.—B.C. recommended to invite tenders from selected contractors for the site preparation works for the redevelopment of married quarters site 6.

Clacton on - Sea, Essex.— U.D.C. have approved, in principle, five-year scheme for private street works at Jaywick estate. Estimated cost £370,000.

Kendal, Westmor.—B.C. recommended to approve plans for the making-up of Sawmill Lane and Sandylands Road. Estimated cost £1,809.

King's Lynn, Norfolk.—B.C. recommended

£1,809.

King's Lynn, Norfolk.—B.C. recommended to apply for sanction to borrow £15,179 for making up of Estuary Road.

Lambeth.—L.C.C. to obtain a tender from Sir Robert McAlpine and Sons, Ltd., 80 Park Lane, London, W.l., for the reconstruction and completion of Sutton Walk. Estimated cos: £13,100.

£13,100.

Malden and Coombe, Surrey.—B.C. propose the improvement of Central Road, Worcester Park, between Green Lane and Worcester Park ay bridge

the improvement of Central Road, Worcester Park, between Green Lane and Worcester Park railway bridge.

Newcastle upon Tyne.—City Council recommended to approve scheme and apply for sanction to borrow £30,500 for the improvement of Kenton Lane between Creighton Avenue and Moor Lane.

City Council expects to start work next year on a scheme for a roundabout and underpass, at the Pilgrim Street, Tyne Bridge, City Road, and Mosley Street junction. Estimated cost £1m. It is also expected that work will commence during the next 12 months on the widening of the Newcastle-Tynemouth coast road (A.1958), £1\frac{1}{2}m.

St. Albans, Herts.—City Council recommended to submit to C.C. for approval, scheme for improvements at the Grimston Road/Stanhope Road junction.

Scunthorpe, Lines.—B.C. recommended to negotiate with G. Wimpey and Co., Ltd., for the construction of roads and sewers for 326 houses at Westcliff estate; apply for sanction to borrow £1,230 for construction of an access road to northern end of the industrial estate, Southend-on-Sea, Essex. — B.C. have approved, in principle, plans for the provision of a marshalling apron extension, new taxiway and development of the western area at the Airport. Estimated cost £185,000.

Southport, Lancs.—B.C. recommended to approve the construction of a road through the site of the proposed infant welfare centre and school health service clinic on the Lincoln House site.

B.C. recommended to approve, for submission to the M.T., following road improvement schemes to be carried out during the financial year 1961-62: Meols Cop Road reconstruction (from junction with Scarisbrick New Road to Blowick Level Crossing), estimated cost £22,000; surfacing of Preston New Road with lin. hot-rolled asphalt carpet from Marshide Road to Rufford Road junctions, £10,400; Segars Lane improvement — widening of carriageway and reconstruction of footpath on north side, £3,700; improvements (dedications)—Liverpool Road (66 and 68); Tulketh Street (69, 71, 73, 75, 77, 79, 81 and 83); and Bridge Street (6, 20, and 22 and 1, 3, 5 and 7), £2,750; improvements (dedication)—11 and 13 Union Street and side of 174 Lord Street, and Morningston Road improvements, £3,703; Rufford Road (Preston New Road to New Lane)—heating, planing and resurfacing with lin. d.t.s., £2,592; Scarisbrick New Road (Ash Street to Haig Avenue)—reconstruction of foundation on N.E. side, heating and planing remainder, and lin. carpet hot-rolled asphalt overall, £7,469; St. Luke's Road—reconstruction of foundation on either side of tram track, heating and planing remainder and lin. carpet d.b.s., £7,057; Kew Road (Eastbourne Road to Bedford Road)—removal of tram track, make good foundations and surface with lin. carpet d.b.s., £4,030.

Surrey.—C.C. recommended to approve in principle scheme for the provision of dual carriageways at Hook Road (part).

Surrey.—C.C. recommended to bubmit to M.T. for grant aid, scheme for the extension

approve in principle scheme for the provision of dual carriageways at Hook Road (part).

Surrey.—C.C. recommended to submit to M.T. for grant aid, scheme for the extension of dual carriageways at Rosehill, on the Sutton By-Pass Road, A.217, estimated cost £30,000; proceed with improvements to the Maidstone-Guildford Road, A.25, between Limpsfield and West Hill, Oxted, £157,000; and approve scheme for the widening of carriageway at Milton Heath, Dorking, including improvements to Milton Bridge, £63,600.

Swindon, Wilts.—B.C. recommended to prepare detailed scheme for improvement of Barnfield Road from the new depot entrance to Rodbourne Road.

Tottenham, Middx.—B.C. recommended to apply for sanction to borrow £1,554, £1,103 and £2,165 respectively for the construction of roads and sewers for new housing schemes at Warwick Gardens, Fairfax/Effingham Roads and Braemar/Kent Roads.

Tunbridge Wells, Kent.—B.C. recommended to approve the makington of Fernald (nazv.)

Tunbridge Wells, Kent.—B.C. recommended to approve the making-up of Ferndale (part). Walton and Weybridge, Surrey.—U.D.C. recommended to submit to M.T. for approval, scheme for the widening of Queens Road at Sir Richard's Bridge, Walton. Estimated cost £4,025.

E4,025.

Weymouth, Dorset.—B.C. recommended to apply for sanction to borrow £10,150 for the construction of roads to serve small plot development at Chickerell Airfield.

Worcester.—City Council recommended to approve plan for the future widening of Prospect Place, London Road.

## SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Basingstoke, Hants.—North East Hampshire Area Planning Committee have approved the erection of a pumping station for the Tadley sewerage and sewage disposal scheme for

Bath, Som.—City Council recommended to approve the laying of a new sewer in the Larkhall area. Estimated cost £6,500.

arkhall area. Estimated cost £6,500.

Beccles, Suffolk.—B.C. recommended to pply for sanction to borrow £2,385 and £24,900, respectively, for the Darby Road Puddingmoor sewerage schemes.

Bellingham, Northumb.— R.D.C. are considering sewerage schemes.

Bellingham, Northumb.— R.D.C. are considering sewerage scheme for West Woodhorn. Consulting engineer is E. G. Lediard. 4 Eldon Square, Newcastle upon Tyne.

Bury, Lancs.— B.C. expects to invite tenders in June for primary treatment works, including storm water overflows, flumes, reinforced concrete channels and culveris, new screening and detritus equipment and tanks, conversion of two ejectors to centrifugal pumps, and etc., at Blackford Bridge sewage disposal works.

Canterbury, Kent.—City Council propose the reconstruction of the foul sewer at St. Peter's Place. Estimated cost £6,300.

Ceiriog, Denbighs.—R.D.C. have approved, in principle, sewage disposal scheme for Chirk. Estimated cost £7,115.

Ministry have approved plans for the construction of the construction of

Estimated cost £37,115.

Ministry have approved plans for the construction of the Llwynmawr and Dolywern sewage disposal scheme, for R.D.C. Bills of quantities are to be prepared.

Clevedon, Som.—U.D.C. to submit to Ministry, for approval, sewerage scheme for the Town.

Crediton, Devon.—Ministry have approved, in principle, the construction of the Sandford sewerage scheme, for R.D.C. Detailed drawings are being prepared.

Liskeard, Corn.—B.C. recommended, subject to Ministry approval, to instruct Lemon and Blizard, consulting engineers, 59 Tufton Street. London, S.W.I. to complete survey work, and to prepare design details of the disposal work pumping stations, and sewers, for the comprehensive sewage disposal scheme. Estimated Cost £130,000.

cost £130,000.

Northleach, Glos.—R.D.C. to submit to Ministry and C.C. for approval, outline sewerage scheme for Sherborne. Estimated cost £57,000.

Taunton, Som.—Ministry have approved R.D.C's. main drainage scheme for Trull and Staplehay. Estimated cost £33,000. Tenders are to be obtained, Wellington, Som.—R.D.C. to submit to Ministry for grant aid and scheme for the provision of new sewers at Wiveliscombe. Estimated cost £29,000.

West Ashford, Kent.—R.D.C. propose the provision of drainage to serve 400 houses at Kingsnorth and Shadoxhurst. Estimated cost £105,000.

#### STREET LIGHTING

Friern Barnet, Middx.—U.D.C. propose seven year scheme for the conversion of all street lighting to sodium, to include replacing existing lamp standards with concrete columns. Estimated cost £17,000.

Hastings, Sussex.—B.C. recommended to apply for sanction to borrow £7,384 for the provision of street lighting at Gillsman's Hill. Harley Way, Gillsman's Park (stage II), Filsham Road estate, St Helen's Down, Richland Close Ledsham Avenue and cul-de-sac and Ashford Road extension. Ledsham Avenue Road extension,

### CONTRACTS

Full details of the Contracts marked will be found in our Advertisement Columns

# BUILDING AND DECORATING (See also Housing Schemes)

(See also Housing Schemes)

Aberystwyth, Cards. — Erection and completion of two blocks of 16 garages on a site at Fifth Avenue, Penpareau, for B.C. Documents from the Borough Surveyor and Water Engineer, Park Avenue, Aberystwyth. Deposit £1 ls. Tenders by June 5.

Abingdon, Berks.—Alterations and additions to the Council Offices, 60 Bath Street, for B.C. Documents from the Surveyor, Council Offices, 60 Bath Street, Abingdon. Deposit £3. Tenders by May 23.

\*Aldershot. Hapts.—Salesting to the control of the council of the cou

by May 23.

\*Aldershot, Hants.—Selective tendering for B.C. Apply by May 29.

Alterations and improve-

B.C. Apply by May 29.

Bagshot, Surrey.—Alterations and improvements to 128 older type houses on the following sites for R.D.C.: (Contract 220) 60 houses and flats, The Avenue. Lightwater; (221) 39 houses, Stonehill Road and Crescent, Lightwater; (222) 16 houses, Thorndown Lane, Windlesham; (223) 12 houses, Queens Road, Bisley; (224) one house, Manor Way, Bagshot. Documents from the Engineer and Survey, Council Offices, Bagshot. Deposit £2 2s. Tenders by June 3.

Beckenham, Kent.—Erection of 28 btick-

Beckenham, Kent.—Erection of 28 brick-built lock-up garages, together with hard-standing for 32 cars on the Bromley Road housing estate for B.C. Documents from James Dove, borough engineer, Town Hall. Beckenham. Deposit £2. Tenders by June £2. Tenders built lock-ustanding for

Beckenham. Deposit £2. Tenders by June £2.

Belfast.—Following for City Council: (a) Reglazing work and (b) supplying new and recharging, etc., old fire extinguishers in various buildings under the control of the Belfast Corporation during the 12 months commencing Aug. 1, 1961; (c) supply and erection of physical education equipment at Ballygomartin Girls' Secondary School, Lynurst Gardens; (d) building work viz., (i) construction of boiler bases and erection drew chimney stack at Harding Memorial Primary School, Cregagh Road, (ii) supply and erection of wrought-iron balustrades, etc., at Garnerville Domestic Science College, Garnerville Road. Documents from City Architect's Department, 40 Academy Street, Belfast, 1.

Berkhamsted, Herts.— Construction of

Berkhamsted, Herts. — Construction of additional office accommodation over the Council Chamber, for U.D.C. Documents from the Engineer and Surveyor, Civic Centre. Berkhamsted. Deposit £2 2s. Tenders by Lune 8

Blackburn, Lancs.—External painting and incidental work to 99 properties, which may be let in one or more contracts for R.D.C. Applications to W. John, architect. 42 Wellington Street (St. John's). Blackburn. Tenders by May 25.

Blackburn, Lanes.—Painting schools, B.C. Applications to Borough Engineer, Hall, Blackburn, by May 26.

May 18 1961

Mackpool, Lancs.—Norbreck School-detached extension to form three class-rooms cloaks and toilets at Norbreck School of B.C. Applications to the Borough Surveyof, P.O. Box 17 Municipal Offices, Black-yool, by 2.30 p.m., May 16. Deposit £2. pool, by 2.30 p.m., May 18. po C. of E. School, estimated cost approximately 16,000. Bills of quantities available June 2. Tenders by July 3. (15) Beaconsfield—erection of four police houses at Holtspur, estimated cost approximately £8,750. Bills of quantities available June 9. Tenders by July 3. (16) Wing—adaptations to the County Primary School, estimated cost approximately £10,000. Bills of quantities available June 12. Tenders by July 3. (17) Newport Pagnell—erection of a police post service area on M.I. motorway, estimated cost approximately £4,000. Specification available June 9. Tenders by July 3. (18) Contractors are asked to make application to the County Architect, County Offices, Aylesbury, indicating for which works they wish to tender, as soon as possible. A deposit of £3 3s, for bills of quantities is required for projects (1) to (16) inclusive.

\*\*Camberwell.\*\*—Repainting the following columns and posts for B.C.: 1,324 street lighting columns, 220 signposts. Documents from Borough Engineer. Town Hall, Camberwell, S.E.5. Tenders by June 5.

\*\*Cambridgeshire.\*\*—Erection of a new wing and posts for B.C.: 1,324 street lighting for the property of the p

ing columns, 220 signposts. Documents from Borough Engineer, Town Hall, Camberwell, S.E.5. Tenders by June 5.

Cambridgeshire,—Erection of a new wing and boiler house at Willingham House, Willingham for C.C. Apply to the County Architect, Shire Hall, Cambridge, by May 23.

Cheadle and Gatley, Ches.—Supply and orection of one block of three and one block of two prefabricated goncrete garages on the council's Woods Lane housing estate, Cheadle Hulme, for U.D.C. The necessary site works will have been carried out, and the concrete bases will be in existence. Documents from the Engineer and Surveyor. Town Hall, Cheadle, Cheshire. Deposit £2 2s. Tenders by May 31.

Cheshire.—Erection of North Cheshire Central College of Further Education. Timperley, Sala fancestimes and Carabona Carabona.

Cheshire.—Erection of North Cheshire Central College of Further Education. Timperley, Sale (approximate value £230.000), for C.C. Applications to County Architect. County Hall. Chester. by May 29. Deposit £2 2s. myable to C.C. Plans seen at the office of R. S. Biggins and Associates, Richmond Place, Boughton, Chester. Tenders by June 26.

Chester. — Alterations to public conveniences, Hop Pole Paddock, Frodsham Street, for City Council. Submit name and address to the City Engineer and Surveyor, 8 Northgate Street, Chester. Tenders by Ime 9.

line 9.
Chilehurst and Sidcuo, Kent.—External painting 56 properties, Ellison Road, Sidcup,

Manager, Council Offices, Sidcup, by May 23.

Coine Valley, Yorks.—Removal of the existing ranges and the supplying and fixing of 23 tiled fireplaces in Council properties for U.D.C.

Documents from the Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, on receipt of a stamped addressed envelope. Tenders by June 3.

Coulsdon and Purley, Surrey.—Erection of library at Old Coulsdon, for U.D.C. Documents from Eric F. J. Felix, clerk of the Council, Council Offices, Purley. Deposit £3 3s. Tenders by June 5.

Dewsbury, Yorks.—Internal and external painting and decorating work required at various schools for B.C. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 24.

Dewsbury, Yorks.—Improvements at Earlsheaton Park School, comprising alterations and extensions to toilets, provision of connecting corridors, etc., for B.C. Documents from the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by June 12.

Dewsbury, Yorks.—External painting, Town Hall, for B.C. Documents from Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by June 12.

Dewsbury, Tenders by June 5.

Down.—Supply and erection of metal windows at Gilnahirk Primary School Extension, Gilnahirk, Belfast, for Co. E.C. Documents from D. W. Boyd and Company, architects, 34, Scottish Provident Buildings, Belfast, I. Deposit £3 3s. Tenders by May 25.

Durham.—Following for C.C.: Collierley County and Modern Schools—renewal of floors; Easington Colliery County School—repairs to windows; East Stanley County School—repairs to windows; East Stanley County School—renewal of floors; New Seaham Low Colliery County School—renewal of floors; New Seaham Low Colliery County School—renewal of floors; West Stanley Front Street County School—renewal of floors; West Stanley Front Street County School—renewal of floors; West Stanley Front Street County County School—renewal of floors; West Stanley Front Street County County School—renewal of floors; West Stanley Front

Fareham, Hants, Deposit £2, Tenders by Mav 31.

Farnworth, Lancs. — Alterations to the slipper baths and boiler house, and ancillary works at the public baths King Street, for B.C. Documents from the Offices of the Borough Engineer and Surveyor, Town Hall, Farnworth. Tenders by June 5.

Flintshire.—Painting and decorating the following schools, for Co. E.C.: Bronington V.P. (A) K.D.R., internal and external; Penley V.P. (A) K.D.R., internal and external; Talwrn Green V.P. (C) K.D.R., internal. Applications to W. Griffiths, county architect, Llwynegrin, Mold. Deposit £1 Is, each, cheques payable to C.C. Tenders by June 1.

Flintshire.—Painting of V.H.F. wireless masts at The Catch, Halkyn Mountain, Holywell, for C.C. Documents from W. Griffiths, county architect, Llwynegrin, Mold. Deposit £1 Is, cheques payable to C.C. Tenders by May 29.

Friern Barnet, Middx.—Cleaning of the artificial stonework at the Town Hall, for U.D.C. Documents from E. H. Start, engineer and surveyor, Town Hall, N.II. Tenders by June 5.

Frome, Som.—Repainting of 119 houses, for R.D.C. the locations of which are as follows:

surveyor, Town Hall, N.11. Tenders by June 5. Frome. Som.—Repainting of 119 houses, for R.D.C.. the locations of which are as follows: 14 at The Horse Close. Beckington; 4 at Rudge Road Standerwick; 8 at Lower Merryfield. Coleford: 24 at The Crescent. Coleford: 5 at Chirch Close. Great Elm; 20 at Park Hayes, Leigh-on-Mendip; 16 at Fairview, Mells; 22 at Ringwell, Norton St. Philip; 6 at Sunny Hill. Nunney. Applications to J. F. Summers, housing and building surveyor, Public Offices, Frome. Tenders by June 19.

Grange, Lancs.—Improvement and modernisation of the Victoria Hall, for U.D.C. Documents from the Surveyor, Council Offices, Grange-over-Sands. Tenders by May 29.

"Great Yarmouth, Norfolk.—Alterations to College of Further Education, for B.C. Deposit £2 2s. Tenders by June 1.

Hampshire.—Erection of additional classrooms, boiler house and fuel store, etc., in traditional construction and having an approximate area of 4,000 sq. ft., at Hawley Primary School, for C.C. Applications to the County Architect, The Castle, Winchester, by May 26. Deposit £1 ls. (cheques payable to County Treasurer). Tenders by June 5.

Haverfordwest, Pembs.—Following for B.C.: (a) Annual painting, the external painting of 233 houses; (b) street works, improvement of Winch Lane, together with demolition of the Moravian Chapel, 5 Moravian Square, and 3 and 5 Upper Market Street. Documents from the Borough Surveyor, Picton House, Haverfordwest, Tenders by May 29.

Horacastle, Liacs.—External painting of 36 houses for R.D.C. Documents from the Council's Surveyor, Council Offices, Horneastle, Tenders will be considered for the whole of the work or for separate groups of houses. Tenders by May 22.

Huddersfield, Yorks.—Renewal of roof glazing at Vine Street garage, Leeds Road, for B.C. Documents from the office of the Estate and Property Manager, Railway Street, Huddersfield. Plans seen at the Town Clerk's Office. Town Hall, Huddersfield, Tenders by June 14.

Huntingdonshire.—Sawtry—erection of a two-form entry secondary modern school, to-

Office. Town Hall, Huddersfield. Tenders by June 14.

Huntingdonshire. — Sawtry—erection of a two-form entry secondary modern school, together with adult provision, youth centre and caretaker's cottage, for C.C. The school will be mainly of brick construction with pitched timber roofs, the foundations are to be short bored pile and beam foundations laid by a specialist contractor. Submit names to S. M. Holloway, county architect, County Buildings, Huntingdon, by noon May 23. Tenders by June 26.

Ilkley, Yorks.—Construction of public con-

June 26.

Ilkley, Yorks.—Construction of public conveniences at the bathing pool, for U.D.C.

Documents from the office of the Engineer and Surveyor, Chantry Drive, Ilkley.

Tenders by

Surveyor, Chantry Drive, likley. Tenders by June 9.

Inverness-shire.—Additions and alterations to Kilmonivaig Primary School for C.C. The works comprise concrete and brick, carpenter and joiner, plumber and drainage, plaster and cement, painter and electrical works. Applications to the County Architect, The Castle, Inverness, by May 29.

Kidsgrove, Staffs.—Repairing and improvement of certain garages in King Street for U.D.C. Documents from the Housing Officer, Town Hall, Kidsgrove. Tenders by June 7.

Killeen, Armagh.—Construction and completion of a customs post at Killeen, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, I. Deposit 62. Plans also seen at Ministry of Labour and National Insurance Local Office, John Mitchel Place, Newry. Tenders by June 7.

Kingsclere and Whitchurch, Hants.—Construction of public conveniences at Kingsclere, for R.D.C. Documents from F. A. H. Keates, clerk, Council Offices, Kingsolere. Tenders by May 29.

Lanark.—Painter work of phases I and II of

by May 29.

Lanark.—Painter work of phases I and II of the St. Joseph's R.C. School, Blantyre. Applications to D. G. Bannerman, county architect, 34 Albert Street, Motherwell, by May 20.

May 20.

Lanark.—Several works contract for the erection of an indoor swimming pool at South Vennel Playground, Lanark, for B.C. Applications to J. G. Good, town clerk, Council Offices, Lanark, by May 22. Plans seen at the office of John B. Wingate, 25 Wellington

Offices, Lanark, by May 22. Plans seen at the office of John B. Wingate, 25 Wellington Street, Glasgow.

Lancashire.—Following for C.C.; Demolition of outbuildings, clearance of site, and re-roofing of other outbuildings in asbestos cement slates, together with minor repairs, at Divisional Health Office, Winwick; alterations and adaptations at Darwen Divisional Education Offices and Youth Employment Bureau (the work is to form new offices, and includes alterations to services and finishes); alterations to the existing hose tower at Eccles Fire Station, including formation of external drill platforms, installation of hose drying fan, and alterations to door and window openings. Applications to the County Architect, P.O. Box 26. County Hall, Preston, by May 22.

Larbert, Stirlings.—Painter and decorating work in connection with the second phase of Management for The Roval Scottish National Institution. The second phase consists of two nursing blocks (52 patients each), and one treatment block (54 beds). Applications to Donald M. Johnston, secretary to the Board of Management, The Roval Scottish National Institution, secretary to the Board of Management, The Roval Scottish National Institution, Larbert, by May 22. Plans seen at the office

of Lockhart W. Hutson, architect, Cadzow House, 10 Auchingramont Road, Hamilton, or at the office of the Clerk of Works on the site.

Leeds. — Alterations to existing factory premises in Belle Vue Road, to form mobile police headquarters (traditional construction—all trades). for City Council. Documents from Director of Works, Sweet Street, Leeds, 11. Deposit £2, cheques payable to Corporation. Tenders by June 19.

Leicestershire. — Provision of sun lounge, kitchenette and alterations to sanitary accommodation at Hastings House, County Home, Loughborough, for C.C. Applications to County Architect, 123 London Road, Leicester, by May 24. Deposit £2 2s. Tenders by June 7.

\*Leicestershire. — Extensions to two schools for C.C. Apply by May 22. Tenders by July 10.

Lexden and Winstree, Essex.—Conversion of

"Leicestershire.—Extensions to two schools for C.C. Apply by May 22. Tenders by July 10.

Lexden and Winstree, Essex.—Conversion of existing fuel stores into bathrooms and installation of a hot and cold water system in 13 houses at Crownfield Cottages, Dedham, for R.D.C. Documents from the Surveyor, Rebow Chambers, Sir Isaac's Walk. Colchester. Deposit £2 2s. Tenders by May 30.

Liverpool.—External painting at passenger transport offices, 24 Hatton Garden, for City Council. Documents from the General Manager, Passenger Transport Department, Contracts and Supplies Section, Edge Lane Works, Liverpool. 7. Tenders by June 5.

Liverpool.—Exterior painting and interior decoration of properties at Vyrnwy estate, for City Council. Documents from Water Engineer, 55 Dale Street, Liverpool 2, or Resident Land Agent, Lake Vyrnwy, via Oswestry, Shropshire. Tenders by June 5.

Liverpool.—Alterations, repairs and decorations, 35 Newsham Drive, and 11 Sandon Street, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by May 31.

Liverpool.—External painting at various schools, etc., for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by June 7.

Lothingland, Suffolk.—Exterior painting of 134 houses in the parishes of Barnby, Bradwell, Burgh Castle, Carlton Colville, Fritton-Hopton, on-Sea, Kessingland, Lound, Reydon, Somerleyton, Wangford and Wrentham, for R.D.C. Documents from the Engineer and Surveyor. Council Offices, Rectory Road, Lowestoft. Deposit £1 Is., cheque. Tenders by May 24.

Loughborough, Leies.—Redecoration of the north and south corridors, entrance hall, stair-

Council Offices. Rectory Road. Lowestoft. Deposit £1 Is., cheque. Tenders by May 24.

Loughborough, Leics.—Redecoration of the north and south corridors, entrance hall, staircase and committee rooms at the Town Hall. for B.C. Documents from the Town Hall Manager, Southfields, Loughborough. Tenders by June 3.

Lunesdale, Lancs.—External painting of 114 houses; four bungalows: two shops and four garages, for R.D.C. Documents from the Housing Manager, Council Offices, Lunesdale. Tenders by May 24.

Luton, Beds.—Following for B.C.: (a) Supply and laying of polyvinyl chloride, rubber, and linoleum tile flooring, and metal non-slip nosing to staircases, girls' high school extension. Tenders by May 30; (b) precast brick and concrete staircases, girls' high school extension. Tenders by May 30; (c) heating installation, New Hangar, Luton Airport. Tenders by June 1; (d) electrical rewiring 281 b.i.s.f.-type houses, Ashcroft estate. Tenders by June 2. Documents from Borough Architect. Town Hall, Luton.

"Manchester.—Design and installation of refuse handling plant for City Council. Tenders by August 25.

Manchester.—Erection of shelter and toilet at the following, for City Council: (a) Ashley Lang Moston; (b) Tayfield Road Wythenshawe.

by August 25.

Manchester.—Erection of shelter and toilet at the following, for City Council: (a) Ashley Lane, Moston; (b) Tayfield Road, Wythenshawe. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 31.

Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 31.

Manchester.—Supply and laying of thermoplastic tile fiooring at Nicholls Secondary School, Ardwick, for City Council. Documents from City Architect, P.O. Box 488. Town Hall, Manchester. Tenders by May 24.

Milford Haven, Pembs.—Erection of a block of shops and flats at the junction of Pieton Road and Observatory Avenue, for U.D.C. Documents from the Engineer and Surveyor's Department Town Hall, Milford Haven, Denosit £2 2s. Tenders by June 8.

Neath. Glam.—Painting of the interior of Neath General Market for B.C. Documents from the Borough Engineer, Gwyn Hall, Neath. Deposit £3 3s. Tenders by May 30.

Newburn, Northumb.—Construction of a golf club house. at Westerhope Municipal golf course. for U.D.C. Documents from the Architect, Council Offices, Newburn. Deposit £5 5s. Tenders by June 5.

North Riding.—Following for Co. E.C. (1) nainting work at Catterick Camp Aisne Lines County School; Eston. South Bank County Junior School, near Middlesbrough; (2) retiling roofs at Whitby Grammar School; Hinderwell County School, near Salthurn. Documents from the County Architect. County Hall, Northallerton, Tenders by May 26.

Nottingham.—Construction of an infants' school in traditional construction on The Bestwood Park estate for City Council. Documents from F. M. Little, city engineer and surveyor, Guildhall, Nottingham. Deposit £2. Tenders by May 31.

Nottingham.—Cleaning and painting at the undermentioned buildings, for Education Committee: Internal and external—The Middleton School, Harrow Road, Wollaton Park; internal—further education centre, Canaan Street, Broad Marsh; Tennyson Hall, Tennyson Street; The Dale School kitchen, Edale Road, Sheinton Dale. Documents from the Education Office (Sites and Buildings) Department) Exchange Buildings, Smithy Row, Nottingham. Deposit £1 each. Tenders by June 5.

Plymouth.—Re-covering with new asphalt, areas of flat roofing at the Central Ambulance Station, Greenbank; the District Nurses' Home. Durnford Street; and block 4. Clowance Street Flats, Devonport, for City Council. Documents from J. Ackroyd, city engineer and surveyor, Pounds House, Plymouth. Deposit £3 Ss., cheque payable to Corporation. Tenders by May 26.

Pontypool, Mon.—Building on bathrooms with new hot water systems at 24 houses at Edward Street for U.D.C. Applications to the Architect, Council Offices, Pontymoel, Pontypool, Deposit £1 Is. Tenders by June 5.

Poole, Dorset.—Erection of 85 sq. vd. of 9in. brick wall of 4ft. 3in. to 4ft. 6in. in height: together with ancillary works, at Shore Road and Kingsbridge Road, for B.C. Documents from the Borough Engineer, Council Offices, Poole, Deposit £2 2s. Tenders by May 24.

Reading, Berks.—(a) Erection of a steel-framed building complete with asbestos roof cladding and part vertical cladding for garage purposes at the highways depot, Abattoirs Road; (b) provision of concrete foundations, site concrete and dwarf walls with ancillary works in connection with the foregoing, for B.C. Documents from the Borough Architect, Town Hall, Reading. Tenders by May 23.

Richmond, Yorks.—Painting of 151 houses in various parishes for R.D.C. Documents from the Engineer and Surveyor, Swale Hou

from the Engineer and Surveyor, Swale House, Richmond. Deposit £2. Tenders by May 23. Richmond, Survey.—External painting and minor repairs to 82 houses and 12 flats in the Ham area, for B.C. Documen's from the Borough Engineer and Surveyor, King's Road, Richmond. Tenders by June 5.

Rickmansworth, Herts.—External painting and incidental repairs to 127 Council houses on the Mill End and Croxley Green housing estates, divided into three contracts of 36, 37 and 54 houses respectively, for U.D.C. Tenders may be submitted for one or all contracts but the completion dates will be the same. Documents from the Engineer and Surveyor, Council Offices, Rickmansworth. Deposit £2 2s. Tenders by May 29.

Rochdale. Lancs.—External painting at (a) Heybrook School; (b) Town Hall, for B.C. Documents from the Borough Surveyor, Town Hall, Rochdale. Tenders by May 30.

Romford, Essex.—Roller skating pavilion at King George's Field, for B.C. Supply and erection of a sectional timber building measuring 24ft. x 18ft., with cedar cladding, internal linings and partitions, etc., complete upon a prepared foundation. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s., cheque. Tenders by May 36.

Silsden. Yorks.—Alterations and additions

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Silsden. Yorks.—Alterations and additions to Town Hall, for U.D.C. Documents from the Engineer. Town Hall, Silsden. Deposit £2 2s. Tenders by May 29.

Southamoton.—Erection of pavilion at Stoneham Lane (east side) for B.C. Applications. in writing, to the Borough Architect, C vic Centre, Southampton, by May 27.

Tenders by June 26.

Southend-on-Sea, Essex.—Converting classroom into two classrooms for partially deaf unit and works incidental thereto at Prince Avenue infants' school. for B.C. Applications to the Borough Architect, 30 Alexandra Street, Southend-on-Sea. Tenders by June 7.

Southend-on-Sea, Essex.—Converting prac-

Street, Southend-on-Sea. Tenders by June 7.
Southend-on-Sea, Essex.—Converting practical rooms into laboratories and works incidental thereto at Southend High School for Boys, for B.C. Applications to the Borough Architect, 30, Alexandra Street, Southend-on-Sea. Tenders by June 7.
Sunderland, Dur.—Erection of (a) aged persons' shelter at Pennwell and (b) olayleaders hut at King George V Playing Fields, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s. Tenders by May 24.
Tenby, Pembs.—Construction of a three-

Tenby, Pembs.—Construction of a three-storey building in Upper Park Road, for B.C., containing on the ground floor a shop, 'bus shelter and conveniences, and on the first and second floors one-bedroom flats. Documents from M. Mulligan, borough surveyor and water engineer, Guildhall, Tenby, Tenders by June 5.

Tyrone. — Plumbing installations at the School meals kitchen and dining hall at Castlederg Voluntary Secondary Intermediate School for Co. E.C. Documents from 37 Malone Road, Belfast, 9. Deposit \$5 is. Tenders by May 29.

Wallasey, Ches.—Erection of secondary technical school for girls, Leasowe, having a floor area of 42,000 sq. ft. in one three-storeyed reinforced concrete framed buildings, together with all external services including the layout of playing fields and the erection of a caretaker's bungalow, for B.C. Applications to the Borough Architect, Town Hall, Wallasey. Tenders by July 17.

\*Wandsworth. — Erection of public convenience, etc., at Leigham Court Road, for B.C. Submit names, etc., by May 23.

\*Watford, Herts.—Reciling roofs for B.C. Apply by May 23. Deposit \$2 2s.

Wem, Salop.—Alteration and adaptation of Roden Lodge, to form new Council offices with car park and caretaker's accommodation, for R.D.C. Documents from Hind and Brown, architects from District Bank Chambers, Hanley, Stoke-on-Trent, Staffs. Deposit \$2 2s. Tenders by June 15.

West Riding.—Repairs to roads and paths at Thornton View, Clayton, near Bradford, for C.C. Documents from the Divisional Architect, Bishopgarth, Westfield Road, Wakefield. Tenders by June 5.

West Riding.—External and part internal painting at Beech Towers, Staincliffe, Dewbury, for C.C. Applications to the Divisional Architect, Bishopgarth, Westfield Road, Wakefield. Tenders by June 5.

West Riding.—Internal and external painting at Morley Churwell J. M. and J School and school house, for C.C. Documents from L. E. Littlewood, Education Office, Morley, Tenders by May 29.

West Riding.—Following works, for C.C. West Riding.—Repairing brickwork at the Bentley New Village Primary Schools, Bentley, near Doncaster, for C.C. Documents from Education of housecraft room at Owston Pat Secondary School. Applications to the Divisional Architect, Planet Road. Adwick-lestreet, page of further education Office, County Area Offices, Stration Road, Doncaster. Tenders by June

Council, 8 Boroughgate, Ottey. Jenues of May 24.

Whitehaven, Cumb.—Stripping and re-covering with roofing felt and concrete tiles of approximately 100 pre-war houses for B.C. Documents from the office of the Borough Surveyor, Town Hall, Whitehaven. Deposit El 1s. Tenders by May 27.

Whitstable, Kent.—Conversion of Steam Packet. Harbour Street, into offices and a flat. for U.D.C. Documents from the Engineer and Surveyor, The Castle, Whitstable. Tenders by June 5.

Surveyor, The Castle, Whitstable. Tenders by June 5.

Widnes. Lancs.—Strengthening of existing floors at West Bank County Primary School. by the insertion of steel channels alongside the existing wooden beams, for B.C. The work to be carried out between 14th July and 21st August. 1961. Documents from the Borough Architect, Brendan House. Widnes Road. Widnes. Tenders by May 26.

Wirral. Ches.—Repainting of two group A and 137 group B type metal street lamp columns in various roads, contract 295, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Heswall. Tenders by June 3.

Worksop, Notts.—Alteration of, and addition.

Survevor, Council Offices, Heswall. Tenders by June 3

Worksop, Notts.—Alteration of, and addition to, public offices at Park House, Park Street. For B.C. Documents from the Borowsh Engineer. Park House, Worksop. Deposis 23 & Tenders by June 5.

York. — City Council preparing list of approved contractors from which firms will be invited to submit fixed-price tenders for new building works estimated to cost £10,000 and over. Building contractors wishing to be included on this first should submit their names, and state which of the undermeational categories they are able to undertake: (a) Contracts from £10,000 to £25,000 in value; (b) contracts from £50,000 to £100,000 in value; (c) contracts from £50,000 to £100,000 in value; (d) contracts over £100,000 in value; (d) contracts over £100,000 in value; Contractors wishing to be considered for specific types of building work (e.g., housing.)

schools, etc.) should state this in their applications. Any contractor who has not neriously undertaken work for the Council of the category and value applied for should forward satisfactory evidence of their financial standing and their ability to undertake the works. Applications for inclusion on the list to E. Firth. city architect, 8 St. Leonard's Place, York.

Wretham, Denbighs.—External

to E. Firth. Place. York.
Wexham.

Denbighs.—External painting of following, for R.D.C.: 91 houses at Brymbo and Buckgawn; 108 houses and eight flats at Cefn; 279 houses at Bradley and Gresford; 276 Airey houses, it raditional brick houses and two shops with living accommodation at various sites. Documents from T. A. Bowen, engineer and surveyor, Imperial Buildings, Regent Street, Wrexham. Tenders by May 29.

### CLOTHING AND TEXTILES

Southport, Lancs.—Supply of police uniform clothing, including caps, helmets, shirts, ties, gloves, mackintoshes, garberdine raincoats and storm, suits for motor cycliscs, for B.C pocuments from the Chief Constable, Police Headquarters, Southport. Tenders by June 3.

#### DEMOLITION

Demolition

Dundee, Angus.—Demolition and clearance of the property, 33 to 53 Gellatly Street. Dundee, at an early date. Contractors will require to make all arrangements regarding distonal of material, safety of works etc. Documents from J. and E. Shepherd, 61 Gellatly Street. Dundee Tenders by May 23.

Gainsborough, Lincs.—Demolition works for U.D.C. Tenders by June 12.

Hemel Hempstead, Herts.—Demolition of sewige tanks and levelling the site at Jarman Fidds, for B.C. Documents from the Borough Engineer, High Street, Hemel Hempstead. Tenders by May 23.

Lecester.—Demolition and clearance of 55 properties in an area between Graham Street and Humberstone Road, consisting mainly of terraced blocks of houses, area Nos. 217 and 218, for City Council Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Demolition and clearance of 141 properties in Curzon Street and Upper Brunswick Street, consisting mainly of terraced blocks of houses, area Nos. 231 and 232, for City Council. Documents from John L. Beckett, city surveyor, Town Hall, Leicester. Deposit £1 Is. Tenders by May 26.

Rhymney, Mon.—Demolition of 22 stone-built houses and other premises situated at Red House Row and Carno Pit Row, Rhymney, for U.D.C. Documents from W. T. Bebb, architect, Manor House, Bank Square, Chepstow. Tenders by May 29.

Swerby Bridge, Yorks.—Demolition of property at Stocks Lane, Sowerby, for U.D.C. Documents from the Engineer and Surveyor's Department, Beech Royd, Beech Road, Sowerby Bridge. Tenders by May 29.

Swansea.—Demolition of seven houses and three temporary shops in the town area for B.C. Documents from the Borough Engineer and Surveyor, St. Faith's Hall, St. Helens Road, Swansea.—Demolition and clearance of Cwm Farm Camp, Sketty, for B.C. Documents from the Borough Engineer and Surveyor, St. Faith's Hall, St. Helens Road, Swansea.—Demolition and clearance of Cwm Farm Camp, Sketty, for B.C. Documents from the Borough Engineer and Surveyor, St. Faith's Hall, St. Helens Road, Swansea.—Demolition and clearance

June 8.

Swansea. — Demolition and clearance of Cwm Farm Camp, Sketty, for B.C. Documents from the Borough Estate Agent, Guildhall, Swansea. Deposit £2. Tenders by hall, Swansea. May 26.

#### ELECTRICAL

lath, Som.—Electrical installation at 3.4 and 5 North Parade Buildings for City Council. Documents from the Surveyor of Corporate Property, Guildhall, Bath. Deposit 2.2s. Tenders by May 31.

\*\*Path.—Electrical installation at Somerset Place for City Council. Apply by May 27.

Denosit £2 2s.

Place for City Council. Apply by May 27.
Denosit £2 2s.
Benosit £2 2s.
Decuments from the Surveyor. Council Offices, Bentley, Doncaster.
Denosit £1 1s. Tenders by May 23.
Cardiff.—Complete electrical installation in the proposed Leckwith Technical High School, Lawrenny Avenue, for City Council.
Documents from W. S. Atkins and Partners, 6 Park Place. Cardiff. Deposit £2 2s. cheques payable to Corporation. Tenders by May 26.

Essex.—Renewal of electrical installations at the following for C.C.: (1) Braintree Margaret Tabor County Secondary School; (2) Chelmsford Kings Road County Primary School. The works consist of the renewal of the electrical installations, using as much existing material at possible. The buildings will remain in occupation, and the contracts include meidental builders' work. The estimated costs of the contracts are: (1) £5,100; (2) £3,800; (3) £3,600. Separate applications for each contract to H. Conolly, county architect.

Hastings, Sussex.—Electrical installation to
(a) 22 dwellings at Gate Farm extension, and
(b) 73 dwellings at Broomgrove redevelopment
area, for B.C. Documents from the Borough
Engineer, 37 Wellington Square. Deposit £2 2s.,
each contract. Tenders by May 29.

Plymouth.—Re-wiring of the electrical
installation at the public Secondary Boys'
and Girls' Schools, Cobourg Street, Plymouth. Documents from J. Ackroyd, city
engineer and surveyor, Pounds House, Plymouth. Deposit £3 3s., cheques payable to
Corporation. Tenders by May 26.

Worksop, Notts.—Provision of eight fluorescent lighting units, 10 socket outlets and
necessary wiring in a building at Carlzon Road
Tip, for B.C. Tenders may quote for: (a) The
supply only of lanterns, tubes and auxilliary
gear; (b) the wiring and fixing of lanters, etc.;
(c) the whole of the work. Documents from the
Borough Engineer, Park House, Worksop.
Tenders by May 26.

#### FENCING

Bournemouth, Hants.—Erection of protective wire fencing at the Roman Catholic Secondary School site, Holdenhurst Avenue, for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall. Bournemouth. Deposit £1 1s. Tenders by

Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 ls. Tenders by June 10.

Deptford.—Supply, delivery and erection of the following, for B.C.: (a) 404yd. run 2ft. 6in. galvanised mild steel hurdle railings and gates at St. Paul's Churchyard, S.E.8; and (b) 76 galvanised railed panels to play areas at Clyde Street Flats, S.E.8. Documents from the Borough Engineer, Deptford Town Hall, New Cross, S.E.14. Tenders by June 12.

Harrow, Middx.—Erection of boundary and rear garden fences, side entrance gates and close boarded screens on the Corporation's Weald Village and Kenton Lane housing estates, Harrow Weald, for B.C. The work entails the removal of existing fences, the erection of approximately 9,700yd. run of Woodlands fencing, 1,325yd. run 6ft. high close boarded fencing and gates, etc., on the Weald Village estate, and approximately 625yd. run Woodlands fencing, 1,325yd. run 6ft. high close boarded fencing and gates, etc., on the Kenton Lane estate. Applications to the Borough Engineer, Council Offices, Cottesmore, 48 Uxbridge Road, Stanmore, Deposit £2, cheque payable to Corporation. Tenders by June 13.

Romford, Essex.—Supply and erection of about 250 lin. yd. of chain link fencing on angle iron standards, 10ft, high, together with ancillary works at Lawns Park, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. Tenders by May 26.

"Willenhall, Staffs.—Chain link fencing, for U.D.C. Tenders by June 1.

#### GAS AND WATER SUPPLY

Argyllshire. — Laying of approximately 900yd. of 2in. diameter a.c. water mains at Ardgour, Ardnamurchan, for C.C. Applications to the County Engineer, Lochgilphead, by May 22.

\*Argyllshire.—Bowmore and Port Ellen rural water supply, for C.C. Submit names by May 27.

May 27. \*Barnack, for R.D.C. Deposit £2 2s. Tenders scheme C, by June 5.

Breconshire.—Laying of approximately seven miles of small diameter asbestos cement, polythene, and rigid P.V.C. tubing, and ancillary works, for the South-East Breconshire Water Board. Documents from A. E. Round, engineer/clerk, St. John's Mount, Pendre, Brecon. Deposit £2 2s., payable to Board. Tenders by May 29.

Calne and Chippenham, Wilts.—Construction of approximately 1,800yd. of 4in. spunion water main at Corsham for R.D.C. Documents from the Engineer, Bewley House Marshfield Road, Chippenham. Deposit £2 2s. Tenders by June 3.

Documents from the Engineer, Bewley House Marshfield Road, Chippenham. Deposit £2 2s. Tenders by June 3.

Chesterfield, Derbys. — Foundation works for water tank at Linacre for Chesterfield. Bolsover and Clowne Water Board, including open excavation and concrete construction. Documents from the Engineer and Manager to the Board. New Beetwell Street, Chesterfield. Deposit £1 ls. Tenders by June 2.

\*\*Cleethorpes, Lines. — Reconstruction of water tower for North East Lincolnshire Water Board. Tenders by June 19.

Cork, Eire. — Extension of the water main to Droumacappal, Bantry, for C.C., including the laying of approximately 1,354 lin. vd. of 3in. distribution main, together with all fittings and appurtenances. Documents from the County Engineer's Office, Courthouse, Skibbereen. Deposit £5 5s.

Tenders by June 10.

\*\*Manchester. — Supply of pipes for City Council. Tenders by June 2.

Melrose, Roxburghs.— Laying of about 1,230 yd. of 4in. iron water main and associated

work, in Waverley Road, for B.C. Documents from the office of Gilbert Thomson and Son. chartered civil engineers, 164 Bath Street, Glasgow, C.2. Deposit £2 2s., cheque. A meeting will be held on the site during the week beginning May 21, when the work will be pointed out. Tenders by June 6.

Neston, Ches.—Following for U.D.C.: (a) Demolition of brick chimney; (b) concrete tilling of well and borehole, to be carried out at the waterworks in Lees Lane, Little Neston. Applications to Wards, Ashcroft and Parkman, consulting engineers 38 The Temple, Dale Street, Liverpool, 2. Deposit £2 2s., payable to the U.D.C. Tenders by May 26.

Ross and Cromarty.—Lewis water supplies

Ross and Cromarty.—Lewis water supplies group E, Callanish area, for C.C., involving the laying and jointing of 11½ miles of asbestoscement pipes 1½ in. to 6 in. diameter, together with the construction of a small loch intake and service reservoir at Callanish in the Island of Lewis Documents from the County Water Engineer, Burn Place, Dingwall. Arrangements have been made to show intending offerers over the site of the works on May 23, contractors intending to be present should meet at the Caledonian Hotel, Stornoway, at 9 a.m. Tenders by June 5.

St. Ives, Hunts.—Construction of approximately 1,500 lin., yd. of 8in. diameter S.I. water mains, and ancillary works, S.63—contract 3, for B.C. Documents from the offices of Howard Humphreys and Sons, consulting engineers, West Street, Epsom, Surrey, by 4 p.m., May 26. Deposit £5 5s., cheques payable to B.C. Plans also seen at Town Hall. St. Ives. Tenders by June 7.

Selby, Yorks.—Provision and laying of approximately 3,078yd. of 6in. asbestoscement water main in the parishes of Brayton and Hambleton for R.D.C. Documents from the Surveyor, 22 Park Street, Selby. Deposit £2. Tenders by June 7.

Wigton, Cumbs.—Water development scheme, stage IV, part I, for R.D.C., involving the

Selby. Deposit £2. Tenders by June 7.

Wigton, Cumbs.—Water development scheme, stage IV, part I, for R.D.C., involving the laying of about 17,000 lin. yd. of 12in. diameter 1,700 lin. yd. of 8in. diameter, 2,100 lin. yd. of 4in. diameter S.C.I. water mains and the construction of an enclosed reinforced concres service reservoir of 1 million gallons capacity, with ancillary works. Documents from Eric G. Lediard, 4 Eldon Square, Newcastle upon Tyne, 1. Deposit £10, cheque payable to R.D.C. Tenders by June 23.

### HEATING AND VENTILATING

\*Bath.—Heating installation at Somerset Place for City Council. Apply by May 27. Deposit £2 2s.

Bournemouth, Hants.—Complete installation of heating boilers, storage tanks and pipework at St. Michaels School, for B.C. Applications to the Borough Architect, Room 106, Town Hall, Bournmouth, by May 23. Tenders by June 6

Hall, Bournmoun, by May 27.

Cardiff.—Installation of heating and allied services at Field House Hostel, Fidlas Road, Llanishen for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by May 31.

Chapel-en-le-Frith, Derbys.—Supply and fixing of two central heating boilers at the council offices, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Hayfield Road, Chapel-en-le-Frith. Tenders by May 27.

May 27.

Liverpool. — Supply and fixing of oil-fired heating boilers and domestic boilers at Gales Buildings and fire station, Hatton Garden. for City Council. Documents from the City Engineer and Surveyor, Municipal Buildings. Liverpool, 2. Tenders by May 19.

#### HOUSING SCHEMES

Abergavenny, Mon.—Following for R.D.C.:
(a) Llanwenarth Citra, small water scheme; (b)
Mardy bungalows site, eight three-bedroomed
houses; (c) Llanddewi Skirrid, four three-bedroomed houses, with small sewage disposal
works; (d) Great Oak housing site, Bryngwn.
four three-bedroomed houses, with small
sewage disposal works; (e) Lower House Site
Govilon, site works, roads and sewers; (f)
Llanvapley, four three-bedroomed houses,
Documents from D. T. D. Evans, architect/
surveyor, Council Offices, Monk Street, Abergavenney.

gavenney.

Atcham, Salop.—One block of two-bedroom flats (four flats per block) at Grafton for R.D.C.
Documents from the Engineer and Surveyor.

24 St., John's Hill, Shrewsbury. Tenders by Docu. 24 St. 1

As t. John's Hill, Shrewsbury.

May 31.

Bala, Merioneths.—Fifteen single-storey dwellings and two two-storey dwellings. Together with site works at Hafan for U.D.C. Documents from Liewellyn Williams, clerk and chief financial officer, Bala Urban District Council. Council Offices, Bala Werioneth. Deposit £4 4s. Tenders by May 27.

Barnstaple, Devon.—Forty-two dwellings at orches estate as follows, for B.C.: (Part a)

18 houses in pairs; (b) four houses in pairs and 20 bungatows in pairs and blocks. and 20 bungatows in pairs and blocks. Documents from the Borough Surveyor, The Castle, Barnscaple. Deposit £2 2s. Tenders

by June 1.

Bideford, Devon.—Fifteen houses at Stucley Road, Pynes Lane estate, for B.C. These houses are sub-divided into two blocks of two houses, one block of three houses and two blocks of four houses. Documents from H. J. Denne, borough surveyor, Municipal Buildings, Bideford. Deposit £2. Tenders by May 29.

\*Bootle, Lancs.—Two blocks of three shops with five maisonnettes over, two four-storey blocks of 12 maisonnettes and 27 garages at Park Lane, for B.C. Tenders by June 1.

Brockmock —Frection of following dwellings.

Park Lane, for B.C. Tenders by June 1.

Brecknock.—Erection of following dwellings, for R.D.C.: Llanfilo, four dwellings; Libanus, two; Llanfihangel-Talyllyn, six; and Sennybridge, six. Documents from R. Merton Jones and Richards, architects, St. Mary's Chambers,

Cannock, Staffs,—Following for U.D.C.: Cannock, Staffs.—Following for U.D.C.:

1)) Eight one-bedroom flats at Hednesford Road, Pye Green, site 12b; 2) four one-bedroom flats and two garages at Moss Street, Chadsmoor, site 52; (3) 14 dwellings, 12 garages and one lock-up shop at Bevan Lee Road, Cannock, site 17e; (4) 104 dwellings and 37 garages at Belt Road, Hednesford, site 70. Applications to H. Wilcox, architect, High Green, Cannock, by May 29. Deposit £2 2s. Tenders by June 26.

Cardiff.—Forty semi-detached three-bedroom houses and garages in four contracts at the

Cardiff.—Forty semi-detached three-bedroom houses and garages in four contracts at the Pen-yr-heol estate, Llanrumney, for City Council. Contractors may tender for one or more contracts, but each contract must be tendered for separately. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by June 6.

June 6.
Colchester, Essex.—Following for B.C.:
Greenstead site—houses, 36; bungalows, 17;
three-storey flats, 12. Shrub End Road—houses. three. Layer Road—bungalows, two. Documents from Vinton Hall, borough architect. Borough Architect's Department, 64 West Stockwell Street, Colchester. Deposit £10 10s. Tenders by June 12.

Cookstown, Tyrone.—Fifteen dwellings at Killymoon Street, for U.D.C. Documents from W. and M. Given, architects, consulting engineers and quantity surveyors, I, Waterside, Coleraine. Deposit £3 3s. Tenders by June 5.

engineers and quantity surveyors, 1, Waterside, Coleraine. Deposit £3 3s. Tenders by June 5. Drayton, Salop.—Four one bedroom bungalows with the necessary site works, at Marchamley, for R.D.C. Submit names to Thos. Dudley, clerk of the Council, Council Offices, Smithfield Road, Market Drayton, by May 24. Deposit £2 2s.

Dungannon, Tyrone.—Annaghmore site—two blocks of four houses and site works for R.D.C. Documents from C. A. Irwin, clerk of the Council, R.D.C. Offices, Dungannon, of F. H. Wright and Partners, 79 Botanic Avenue, Belfast. Deposit £3 3s. Tenders by May 3!.

East Kesteven.—Erection of two traditional bungalows, type 1958D, in Grove Street, Great Hale, for R.D.C. Documents from the Council's Architect, Council Offices, 14 Northgate, Sleaford, Tenders by May 24.

Gloucester.—Following for R.D.C.: (a) Six old persons' bungalows and 14 two-storey houses at Ann Wicks Road, Frampton-on-Severn; (b) 13 two-storey houses at Colwell Avenue, Hucclecote; (c) four old persons' bungalows at Persh Lane, Maisemore. Applications to W. I. Knight, clerk to the Council, 29 Brunswick Square, Gloucester, by May 31.

Harpenden, Herts.—A detached house and office and two semi-detached houses at West-

Council, 29 Brunswick Square, Gloucester, by May 31.

Harpenden, Herts.—A detached house and office and two semi-detached houses at West-field Cemetery and two houses and two flats at Piggottshill Lane Sewage Works, together with external works and services, for U.D.C. Documents from the office of the Engineer and Surveyor, Harpenden Hall, Harpenden, Deposit £2 2s. Tenders by June 5.

Leatherhead, Surrey.—Erection of sewage works, manager's house and building containing office, laboratory and garage for U.D.C. Doc ments from the Engineer and Surveyor, Red House, Leatherhead, Deposit £2 2s. Tenders by May 29.

Leeds.—121 traditional dwellings and 87 garages at Greenside (scheme 897), for City Council. Documents from City Architect, Priestley House, Quarry Hill Flats, Leeds, 9, on and after June 7. Deposit £2, cheques payable to Corporation. Tenders by July 5.

Magherafelt, Londonderry.— Following works for R D.C. (a) Thirty-eight dwellings

able to Corporation. Tenders by July 5.

Magherafelt, Londonderry. — Following works for R.D.C.: (a) Thirty-eight dwellings and nine lock-up garages at Magherafelt (Townparks) site; (b) eight dwellings at Longfield site, near Desertmartin. Documents from W. and M. Given, architects, consulting engineers and quantity surveyors, 1 Waterside, Coleraine, or W. J. M'Kinney, clerk to the Council, Council Offices.

Magherafelt. Deposit £3 3s. each. Tenders

Newark-on-Trent, Notts.-Nineteen bunga-

by May 24.

Newark-on-Trent, Notts.—Nineteen bungalows and common room with flat over, and drainage works, for B.C. Documents from the Borough Surveyor, Municipal Buildings, Baldertongate, Newark-on-Trent. Deposit £2 2s. Tenders by May 29.

Northallerton, Yorks.—One block of six flats, two-storey, of traditional construction at Brompton, for R.D.C. Documents from the office of the Clerk of the Council, The Old Vicarage, Northallerton. Deposit £2 2s. Plans also seen at the office of Brierley, Lackenby and Keighley, architects, 10 Lendal, York. Tenders by May 29.

Northumberland.—Police houses at (a) Cowpen—two pairs; (b) Seaton Delaval—one pair for C.C. Applications to the County Architect, 30-32 Great North Road, Newcastle upon Tyne, 2, by May 22.

Nuneaton, Wars.—Two three-storey blocks of 12 and 36 flats in Queen Elizabeth Road, Camp Hill estate, for B.C. Applications to the M.N. Jepson and Partners, Midland Bank Chambers, Newdegate Place, Nuneaton, or to the Borough Surveyor, Council House, Nuneaton. Deposit £2 2s. Tenders by June 12.

Rawmarsh, Yorks.—Detached house for the Highways Superintendent at Green Lang for

Nuneaton. Deposit £2 2s. Tenders by June 12.

Rawmarsh, Yorks.—Detached house for the Highways Superintendent, at Green Lane, for U.D.C. Documents from G. W. Webb, engineer and surveyor, Council Offices, Parkgate, Yorks. Tenders by May 24.

\*Reigate, Surrey.—Eighteen dwellings at Woodhatch Farm estates for B.C. Deposit £2 2s. Tenders by June 8.

Seaton Valley, Northumb. — Thirty-two houses at Seghill for U.D.C. Documents from the Surveyor, Council Offices, Seaton Delaval, Whitley Bay. Tenders by June 10.

South Cambridgeshire. — Following for R.D.C.: (a) Four bungalows, Hildersham; (b) four houses and four bungalows, Whittlesford. Documents from the Architect and Surveyor, County Hall, Hobson Street, Cambridge. Deposit £2 2s. each scheme (cheques payable to the Council). Tenders by June 6.

South Shields, Dur.—Erection of a com-

South Shields, Dur.—Erection of a communal hall and ancillary unit, and 54 aged persons' bungalows on a site adjacent to Wenlock Lodge, Wenlock Road, Simonside, for

Wenlock Lodge, Wenlock Road, Simonside, for B.C. Documents from the Borough Treasurer, Town Hall, South Shields. Deposit £2 2s. Tenders by June 14.

Taunton, Som.—Erection of six bungalows, shop with flat over and site works at West Monkton, for R.D.C. Applications to H. S. W. Stone and Partners, architects, 20, The Crescent, Taunton by May 20. Deposit £2 2s.

Tynemouth.—Erection of two houses at Moorpark and six at Chirton Grange for B.C. Applications to the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £2 2s. Tenders by June 13.

"Watford, Herts,—Elderly persons' flats for B.C. Apply by May 29. Tenders by July 5.

"Withernsea, Yorks,—122 houses at Clovelly housing site for U.D.C. Deposit £2 2s. Tenders by June 2.

"Wortley, Yorks,—Flats and bungalows, etc., for R.D.C. Deposit £5. Tenders by June 29.

\*Wortley, Yorks.—Flats and bungalows, et for R.D.C. Deposit £5. Tenders by June 29

### MATERIALS AND SUPPLIES

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Horbury, Yorks.—Supply of fireplaces, dustbins, gas boilers, gas cookers, electric wash boilers, electric cookers, electric fires and door furniture for six houses and 10 bungalows to be erected at Golden Square and Northgate for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Horbury. Tenders by May 27.

Ipswich, Suffolk.—Supply to various establishments of the following, during the period commencing 1st June, 1961, for B.C.: Uniforms. clothing, drapery, boots and shoes, earthenware, cleaning materials and ironmongery. Documents from the Town Clerk's Office. Town Hall, Ipswich. Tenders by May 25.

Ipswich, Suffolk.—Supply to various establishments of the following during the period commencing 1st July, 1961, for B.C.: Petrol, fuel oil, paraffin. Documents from the Town Clerk's Office, Town Hall, Ipswich. Tenders by May 25.

Lewisham.—Supply and delivery of the

May 25.

Lewisham.—Supply and delivery of the following, for B.C.: (a) 500 heavy cast-iron gully gratings and frames to the Council's standard pattern; (b) 95 1½ cu, yd, galvanised mild steel cylindrical refuse storage containers and 45 lids. Documents from the Borough Engineer, Lewisham Town Hall, Catford, S.E.6.

Tenders by May 25.

Llanelly, Carmathens.—Supply and de-

Tenders by May 25.

Llanelly, Carmarthens.—Supply and delivery of 2,500 mild steel dustbins for B.C.

Documents from the Borough Engineer and Surveyor, Town Hall, Llanelly, Deposit £1 ls.

Tenders by June 24.

Middlesbrough.—Supply of the following, for the period lst July, 1961, to 30th June. 1962, for B.C.: (1) Coated macadam, fine cold asphalt and special carpets; (2) hot process rolled asphalt—supplying and Jaying (B,S. 594);

(3) cement (bagged and bulk); (4) broken sione and chippings (igneous); (5) sand and gravei; (6) broken slag and penning; (7) concrete kerbs, flags, quadrants, etc.; (8) precast concrete goods—fence, clothes posts and linole; (9) C.I. manhole covers and gully grates; (10) salt glazed pipes; (11) lead pipe and sheet, solder; (12) plaster, plasterboard, paramount cellular partition, building and plastering asbestos-cement rainwater and soil goods; (13) hails, screws, nuts and boils; (14) qualls, firebricks and fire cement; (18) domestic M.S. back boilers and firebottoms; (19) chimney pots and glazed tiles; (20) copper tube; (21) V.E. metal draining boards; (22) sanitary ware lavatory basins, sinks and W.C. pedestals, etc.; (23) W.C. seats—plastic and timber; (24) ready mixed concrete; (25) gas mandles for street lighting; (26) plumbers' brassware—taps, traps, ball floats and waste fittings; (27) copper tube fittings—capillary and compression; (50) paint, putty and distemper; (51) decorators brushes; (52) glass—sheet; (53) electric lamps: (54) galvanised hollow-ware—dustbins, gas boilers and buckets. Documents from the Borough Engineer, Municipal Buildings, Middlesbrough. Tenders by May 26.

Newtownabbey, Antrim.—Supply and delivery to Doagh Road, Newtownabbey, of approximately 6,000 cu. yd. hard fill, for U.D.C. Tomer and plates, for B.C. Documents from the Town Surveor's Office.

Wandsworth.—Supply and delivery of 678 street nameolates, for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Tenders by May 31.

Wandsworth. S.W.18. Tenders by May 31.

West Riding.—Supply and delivery of approximately 23,610 tons of rock salt and approximately 5,100 tons of winter griting material, for spreading on highways for winter maintenance for C.C. Applications to the County Engineer and Surveyor, County Hall Wakefield. When applying for forms of tender, applicants must state whether they wish to tender for the supply of rock salt or winter gritting material. Tenders by May 24.

## PLANT AND MECHANICAL TRANSPORT

PLANT AND MECHANICAL TRANSPORT

\*Burgess Hill, Sussex.—Supply of a concrete
mixer, for U.D.C.

Caerleon, Mon.—Supply and delivery of one
new 7 cu. yd. Shawnee-Poole dumper for Usk
River Board.
Documents from G. McLeod,
engineer, The Croft, Caerleon. Tenders by
May 25.

Chadderton, Lancs.—Supply of an 18.25
cu. yd. Dennis Paxit mark III refuse collector
powered by a Perkins P6 diesel engine and
fitted with a trailer towbar for U.D.C.
Tenders, in plain sealed envelopes, endorsed
"Tender for Refuse Collector," to L. Scott,
clerk of the Council, Town Hall, Chadderton. by May 27.

Chapel-en-le-Frith, Derbys.—Supply and

clerk of the Council, ton by May 27.

Chapel-en-le-Frith, Derbys.—Supply and delivery of a Karrier Bantam 10ft, 2in, wheelbase, low loading refuse collection vehicle, existing vehicle to be taken in part exchange, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Hayfield Road.

For R.D.C. Documents from the Engineer and Surveyor, Council Offices, Haviield Rod, Chapel-en-le-Frith. Tenders by May 27.

Consett, Dur,—Supply of following, for U.D.C.: (a) One Karrier house refuse vehicle. 10 cu. yd.; (b) one Karrier house refuse vehicle. 7 cu. yd.; (c) one six-ton Bedford lorry, S.W.B.; (d) one compressor; (e) one pump—portable type; (f) one 5-7 cwt. vibridory roller; (g) three power barrows—Liner Nipskip; (h) one Liner Portasaw; (i) three verge cutter—Ransomes; (j) two Allen scythes; (k) two Orderley barrows. Specification from the Engineer and Surveyor, Council Offices.

Ransomes; (j) two Allen scythes; (k) two Orderley barrows. Specification from the Engineer and Surveyor, Council Offices. Medomsley Road. Consett.

Derbyshire.—Following, to Ambergate, was Derby, for C.C.: Five Morris 1000 series III 5 cwt. pick-ups, painted prime coat only, with extra passenger seat, heater and toileaus. Derby, for C.C.: Five Morris 1000 series III 5 cwt. pick-ups, painted prime coat only, with extra passenger seat, heater and todieau cover: Four 120 short-wheel-base, 5 tons capacity, forward-control diesel engine motor fories, in makers cab and chassis form, without with heater, number plates and flashing direction indicators; one regular Land-Rover vish petrol engine, truck cab, heater, direction indicators, towing hook, hand speed governor control, and with provision for power takeof. Painted prime coat only. An alternative price to be given for the above fitted with a desel engine; one Massey-Furguson 702 I.D. tractor, complete with cab, traffic indicators, rear juw driving mirror, number plates, road-lighting equipment, and with rear wheel weights and adaptor kit. Also one M.F. type 702 power shovel with 48in, standard material bucket; two portable two-tool air compressors, with output up to 150 cu. ft. free air per maworking pressure 100/125 lb. per sq. in, popplete with tools and hose. Tenders for all or any one of the items complete with secifications and full details in plain sealed evelope endorsed Tender for Plant B. and H to the clerk of the County Council, County

offices, Matlock, by May 26. Tender forms will not be issued. Durham.—Supply of a Karrier Gamecock Purham.—Supply of a Karrier Gamecock refuse collection vehicle with diesel engine, alliesel, body of 12 cu. yd. capacity, side loader, steel, body of 12 cu. yd. capacity, side loader, steel, body of 12 cu. yd. capacity, side loader, steel, body of 12 cu. yd. capacity, side loader, steel and the steel allowance which will be made by way of part exchange for a Karrier Bantam 7 cu. yd. vehicle with hydraulic tipper registered in which will be made by way of part exchange for a Karrier Bantam 7 cu. yd. vehicle with hydraulic tipper registered in famulty. 1949. Tenders, marked "Refuse follection Vehicle," to Rosamond Taylor, clerk fo the Council, Byland Lodge, Hawthorn Terrace, Durham, by noon, May 29.

Eaniskillen, Fermanagh.—Supply of one hand-guided power-propelled vibrating footbath foller, to the Borough Surveyor's Yard for B.C. Tenders to the Town Clerk, Town Hall, Enniskillen, in sealed envelopes marked on the outside "Tender for Footpath Roller," before 10.30 a.m., May 22.

Harogate, Yorks.—Supply of two 2-ton lories for C.C. Documents from C. E. Fellows, borough engineer, Municipal Offices, Hastings, Sussex.—Supply of one 2-ton diesel tipping truck, for B.C. Documents from the Borough Walter Engineer, 28 Wellington Square, Hastings. Tenders by May 23.

Headon, Middx.—Following, for B.C.: (a) Crawler tractor shovel not exceeding 1½ cu. yd. bucket capacity; (b) wheeled mechanical shovel not exceeding 1½ cu. yd. bucket capacity; (b) wheeled mechanical shovel not exceeding 1½ cu. yd. bucket capacity; (b) wheeled mechanical shovel not exceeding 1½ cu. yd. bucket capacity; (b) wheeled mechanical shovel not exceeding 1½ cu. yd. bucket capacity; (b) con 5-ton truck: one 25cwt. truck:

city. Documents from the Borough Engineer and Surveyor, Town Hall, Hendon. Tenders by June 5.

Hornsey, Middx. — Supply of the following for B.C.: One 5-ton truck; one 25cwt. truck; three 10cwt. vans; one Derby-type side-loading refuse collection truck; one road sweeper/collector; one light diesel tractor. Particulars from the Borough Engineer, Town Hall, N.8. Tenders by June 2.

Inverness-shire.—Following for C.C.: (1) Supply and delivery to Inverness of the undermentioned vehicles (tenders to include for painting of lorry and van); (a) Bedford 7-ton diesel forward control TK model lorry, with telehoist and drop side body, single speed axle, two passenger seat, heater, and to be equipped with 900 x 20 12 ply tyres; (b) Morris ½-ton van, with heater; (c) Massey Ferguson 702 Tractor and 702 Shovel. List of extra fittings should be obtained from the County Surveyor; (ii) offers for sale of 1954 Bedford 5-ton tipper lorry, 1955 Commer van and 1955 Furguson tractor with mower attachment, which can be seen at Roads Depot, Diriebught, Inverness. Offers can be shown as allowance against tendered cost of supply of new vehicles, or be submitted independently by any interested party. Tenders and offers in sealed envelopes marked "C. S. Transport," by May 24, to County Clerk, County Buildings, Inverness.

'Lymington, Hants.—Crawler tractor, for B.C. 'Lymington, Hants.-Crawler tractor, for

County Clerk, County Buildings, Inverness.

'Iymington, Hants.—Crawler tractor, for B.C.

Newport, Mon.—Supply and delivery of the following, for B.C.: 22/30 cu, yd. diesel engine compression refuse collection vehicle; 18 cu, yd. diesel engine for B.C.: 22/30 cu, yd. diesel engine compression refuse collection vehicle; 18 cu, yd. diesel engine fore-and-aft refuse collection vehicle fitted with power ress and hygienic shutters; 3-ton diesel engine fore-and-aft refuse collection vehicle fitted with power press and hygienic shutters; 3-ton diesel engine fore-ton the property of the diesel concrete mixer; cement silo, 10 diesel concrete diesel die

Tanders by May 29.

Wellingborough. Northants.—Following, for U.D.C.: (a) One portable rotary compressor (72 e.f.m. at 100 p.s.i.) and pneumatic tools; (b) one diesel/hydraulic wheeled loading thosel; (c) one 3/4-ton petrol tipping lorry. Documents from the Engineer and Surveyor.

Council Offices, Swanspool, Wellingborough. Tenders by May 23.

\*Wembley, Middx.—Supply of 20 motor movers, for B.C. Tenders by June 2.

#### PLAYING FIELDS, PARKS, ETC.

Camberwell.—Supply of 2,000 cu, yd. of fibrous top spit soil to Honor Oak Nursery, S.E.23, for B.C. Documents from Borough Engineer and Surveyor, Town Hall, Camberwell, S.E.5. Tenders by May 29.

"Cheadle and Garley, Ches.—Supply and crect playground equipment for U.D.C. Tenders by June 3.

by June 3.
\*Denton, Lanes.—Surfacing of tennis courts
at Victoria Park, for U.D.C. Tenders by
June 5.

\*Denton, Lancs.—Surfacing of tennis courts at Victoria Park, for U.D.C. Tenders by June 5.

Dewsbury, Yorks.—Resurfacing of playgrounds at two schools, for B.C. Documents from the office of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 24.

\*Edmonton, Middx.—Laying out playing field at Kenninghall Road, for B.C. Deposit £2 2s. Tenders by June 12.

Fareham, Hants.—Supply and delivery of top soil to the following sites, for U.D.C.: Wicor Tip, 2,400 cu, yd.; Salterns Recreation Ground, 1,500 cu, yd.; Salterns Recreation Ground, 1,500 cu, yd. Contractors may tender for a lesser quantity than that stated, limited to a minimum of 250 cu, yd. Documents from Engineer and Surveyor, Westbury Manor, Fareham, Tenders by May 29.

\*Fareham, Hants.—Six hard tennis courts, for U.D.C. Tenders by May 29.

\*Oddbury, Wores.—Artificial football pitch at Birmingham Road recreation ground, contract 61/5 for B.C. Deposit £2 2s. Tenders by June 15.

Romford, Essex.—Construction of four hard tennis courts at Central Park, Harold Hill, for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Romford. Deposit £2 2s. Tenders by May 29.

Romford, Essex.—Land drainage works to two existing soccer pitches at Bedfords Park, for B.C., comprising about 1,650 lin. yd. of drain pipes, and ancillary works. Documents from the Borough Engineer and Surveyor. Town Hall, Romford. Deposit £2 2s. Tenders by May 29.

Skipton, Yorks.—Clearing, levelling, ploughing and reseeding approximately 1½ acres of land, and providing and erecting 60yd, of chestnut pale fenoing for U.D.C. Further

Skipton, Yorks.—Clearing, levelling, ploughing and reseeding approximately 1½ acres of land, and providing and erecting 60yd, of chestnut pale fencing for U.D.C. Further particulars from the Engineer and Surveyor, Town Hall, Skipton. Tenders by May 29.
\*Widnes, Lancs.—Hough Green recreation ground, contract 400, for B.C. Deposit £2 2s Tenders by May 26.

#### ROADS, BRIDGES AND SITE WORKS

ROADS, BRIDGES AND SITE WORKS

Aberystwyth, Cards. — Following works for B.C.: (a) The surface dressing of approximately 25,000 sq. yd. of carriageway, including provision of materials, labour, plant (except roller), etc., required; (b) the laying by machine of approximately 250 tons of ain. bituminous macadam, including provision of materials, labour, plant (except roller), etc., required Documents from the Borough Surveyor and Water Engineer, Park Avenue, Aberystwyth. Tenders by May 29.

Aberdare, Glam. — Replacing tarmacadam paths at 148 houses at Trenant and Trewaun, Hirwaun, with concrete paths for U.D.C. Documents from the Engineer and Surveyor, Vestry Hall, Aberdare. Tenders by June 9.

Acton, Middx.—Following for B.C.: (a)

Vestry Hall, Aberdare. Tenders by June 9.

Acton, Middx.—Following for B.C.: (a) Supplying and erecting chain link fencing and metal railings; (b) resurfacing and repaving highways; (c) removing street trees; (d) repainting street lighting colums; (e) supplying two refuse collecting vehicles, one 5-ton lorry and one 8-ton road roller. Documents from the Borough Engineer, Town Hall, Acton. Tenders by June 1.

\*Aireborough, Yorks.—Road resurfacing for U.D.C. Deposit £3 3s, Tenders by June 3.

\*Basingstoke, Hants.—Making-up of Crossborough Hill, for B.C. Deposit £2 2s, Tenders by June 9.

borough Hill, for B.C. Deposit £2 2s. Tenders by June 9.

Berkhamsted, Herts.—Reshaping and surface dressing of various roads on housing estates. for R.D.C. Applications to the Surveyor, Boxwell House, £75 High Street, Berkhamsted. Tenders by June 5.

\*Berkshire.—Thatcham relief road works for C.C. Deposit £2 2s. Tenders by June 14.

Brentford and Chiswick, Middx.—Kew Bridge Road, Brentford, resurfacing in asphalt, for B.C., comprising the repair of cracks in surface and foundation, and the heating and planing and resurfacing in wearing course of hot rolled asphalt 1½in. in thickness. Approximate area 3.500 sq. yd. Documents from the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4. Tenders by May 26.

Bridgwater, Som.—Sydenham estate footpaths, South 2, phase III. for B.C., including the construction of 1,100 sq. yd. of tarmacadam footpath, with ancillary and incidental works. Documents from the Borough Engineer, Town

Hall, Bridgwater. Deposit £2 2s. Tenders by

Hall, Bridgwater, Degosited Way-Weacombe Road site, construction of 1,120 sq. yd. of Prindroced concrete carriageway, 200 lin. yd. of 9in. and 6in. S.G.W. sewers, including all ancillary and incidental works, for B.C. Documents from the Borough Engineer, Town Hall, Bridgwater. Deposit £2 2s. Tenders by May 27.

anchinary and incidental works, for B.C. Documents from the Borough Engineer. Town Hall, Bridgwater. Deposit £2 2s. Tenders by May 27.

"Brighton, Sussex.—Warren Road improvement, for B.C. Tenders by May 27.

Bromsgrove, Wores.—Following works, for U.D.C.: (1) Worcester Road (St. John Street to Factory Lane)—heat and plane existing surface and lay by machine 1 lin. rolled asphalt; (2) Stourbridge Road (High Street to Bewell Head)—heat and plane existing surface and lay by machine 1 lin. rolled asphalt; (3) Alcester Road (High Street to Mount Pleasant).—Heat and Plane existing Surface and lay by machine lin. rolled asphalt; (4) patching small areas of asphalt carriageways. Documents from Engineer and Surveyor, Council House, Bromsgrove. Deposit £2 2s. Tenders by May 27.

Burnley, Lancs.—Rekerbing and reflagging works, for B.C., comprising approximately 1,900 lin, yd. of kerbing and 3,200 su yd. of flagging. Documents from the Borough Engineer and Surveyor, 22/24 Nicholas Street. Burnley. Deposit £2. Tenders by May 29.

Cheltenham, Glos.—Site preparation works for two garage sites in the borough, comprising a total 1,000 sq. yd. of tarred macadam surfacing, together with ballast foundation, and 770 sq. yd. of concrete bases. Documents from W. E. C. Bird, borough engineer, Municipal Offices, Cheltenham, Deposit £2 2s. Tenders by May 31.

Dagenham, Essex.—Street works at Dagmar Road, for B.C., which consists of annexations.

Offices, Cheltenham. Deposit 22 28. Taken by May 31.

Dagenham, Essex.—Street works at Dagmar Road, for B.C., which consists of approximately 855 sq. yd. of reinforced concrete carriageway with kerb, paving and surface water sewer. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Deposit £2 2s. Tenders by May 30.

Denton, Lancs.—Making-up of St. Annes Road (part of), for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Denton. Deposit £2 2s. Tenders by June 1.

Hall, Denton. Deposit 22

"Derbyshire.—Heating and planing of roads for C.C. Tenders by May 30.

Dewsbury, Yorks.—Preparation of one garage space at Ravenshouse Road, comprising excavating, levelling, laying bed of clinker ashes, etc., for B.C. Documents from the offices of the Borough Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by May 24.

Kent—Resurfacing of highways.

May 24.
\*Dover, Kent.—Resurfacing of highways, 1961-62, for B.C. Deposit £2 2s. Tenders by

"Dover, Kent.—Resurfacing of highways, 1961-62, for B.C. Deposit £2 2s. Tenders by June 2.

Down.—Realignment of the Downpatrick to Crossgar Road (route A.7), for a distance of approximately 2,330 lin. yd., in the Townlands of Magheracranmoney and Dunnanelly (Bellshill section), for C.C. Proposal 248 (63), December, 1957. Documents from the County Surveyor, County Surveyor's Office, English Street, Downpatrick, Deposit £5, cheques payable to C.C. Tenders by June 20.

Farnworth, Lancs.—Surface dressing of approximately 30,000yd. of roads, 1961-62, for B.C. Applications to the Borough Engineer and Surveyor, Town Hall, Farnworth, Bolton, Tenders by May 29.

"Finchley.—Reconstruction of roads for B.C. Deposit £2. Tenders by June 6.

"Gainsborough, Lines.—Construction of roads and sewers, for U.D.C. Deposit £3 3s. Tenders by June 10.

Gelligaer, Glam.—Route B.4254, Cascade Road improvement stage III, for U.D.C., comprising the re-alignment and widening of approximately a 300yd, length of highway. Documents from the office of the Engineer and Surveyor, Council Offices, Hengoed, Glam. Deposit £5 5s. Tenders by June 1.

"Gloucestershire.—Longlevens improvement, for C.C. Deposit £5. Tenders by June 5.

"Harrogate, Yorks.—Private Street improvement for C.C. Deposit £5. Tenders by June 5.

"Glossop, Derbys.—Road surfacing for B.C. Tenders by June 1.
"Gloucestershire.—Longlevens improvement, for C.C. Deposit £5. Tenders by June 5.
"Harrogate, Yorks.—Private Street improvement works, for B.C. Tenders by June 1.
Huddersfield, Yorks.—Completion of roadworks on Jackroyd Lane estate, Fir Road Broomfield Road estate, for B.C. The works consist of the flagging of approximately 3,250 sq. yd. of footway and the construction of approximately 2,000 lin. yd. of in-situ concrete channel, together with carriageway shaping for future tarmacadam surfacing and other ancillary works. Applications to A. L. Percy, Borough Engineer and Surveyor, High Street Buildings, Huddersfield. Deposit £2 2s. Tenders by May 29.
Huddersfield, Yorks.—Re-roofing of part of the Longroyd Bridge trolley bus depot in asbestos sheeting and patent glazing, for B.C. Plans seen at the Town Clerk's Office, Town Hall, Huddersfield. Documents from the office of the Estate and Property Manager.

Railway Street, Huddersfield. Tenders by

Railway Street, Huddersfield. Tenders by June 12.

Hull.—Construction of approximately 550 sq. yd. of concrete road and approximately 75 lin. yd. of sewer on the permanent housing site, Ref. No. 24C (off Bellfield Avenue), for City Council. Documents from the City Engineer, Guildhall, Hull. Deposit £2, to City Treasurer. Tenders by June 12.

Ipswich, Suffolk.—Supply, delivery and laying of approximately 1,500 sq. yd. of single course and two course hot rolled asphalt on various roads, 1961/62, for B.C. Documents from the Borough Surveyor, 19 Tower Street, Ipswich. Tenders by May 29.

\*Keynsham, Som.—Surface dressing, 1961, for U.D.C. Tenders by June 16.

\*Kingston-upon-Thames, Surrey.—Widening of Clarence Street/Eden Street junction, for B.C. Deposit £2 2s. Tenders by May 30.

Lancashire. — Padiham-Barrowford road, B.6247—improvement of bends west of Fence and Fence-Nelson diversion for C.C. The roadworks comprise the widening and realignment of the Padiham-Barrowford road. B.6247, west of Fence Village, together with the construction of a short diversion at Fence. The total length of the proposed works is approximately three-quarters of a mile. Documents obtainable from the County Surveyor and Bridgemaster, P.O. Box 9, Counly Hall, Preston. Deposit £10 (cheques payable to the Council). Tenders by June 12.

Lancashire, — Improvement at Liverpool Road from Penwortham Triangle to Cop

Lancashire, — Improvement at Liverpool Road from Penwortham Triangle to Cop Lane, Penwortham, for C.C., comprising the construction of mass concrete retaining walls.

construction of mass concrete retaining walls, including facing in existing and new stone, building random rubble fence walls and brick fence walls. Documents from the County Surveyor and Bridgemaster, P.O. Box 9, Preston. Deposit £5 (cheques payable to the Council). Tenders by June 9.

Llandudno. Caeras.—Making-up of Abbey Court, for U.D.C. Documents from J. A. Edwards, engineer and surveyor, Town Hall. Llandudno. Tenders by Mav 29.

London.—Widening of Coldharbour Lane. Lambeth, from 16 to Lowth Road, for C.C. Documents from the Chief Engineer, County Hall, Westminster Bridge, S.E.I. Deposit £3., cheque payable to C.C. Documents may be inspected on personal application at Room 450D, County Hall, before payment of fec. Tenders by June 5.

inspected on personal application at Room 450D, County Hall, before payment of fee. Tenders by June 5.

\*London.—St. Giles Circus, Holborn. improvement contract 1, for C.C. Deposit £3. Tenders by June 12.

\*Malden and Coombe, Surrey.—Reconstruction of Kingston Road—section V, for B.C.

Manchester.—Sale (Manor Road) housing development. road and sewer contract, for City Council, including, constructing 16,500 sq. yd. bitumen macadam carriageway, 2,350 lin, yd. sewerage, 9in, to 30in, diameter, and ancillary works. Documents from the City Surveyor (Room 228), Town Hall, Manchester 2. Tenders by June 5.

Manchester.—Royle Green Road development, stage 2—Northenden, for City Council, including the construction of 3,500 sq. yd. bitumen macadam carriageway, 500 lin, yd. 9in, to 12in, diameter, sewer, and all ancillary works. Documents from the City Surveyor (Room 208), Town Hall, Manchester, 2. Tenders by May 29.

March, Cambs.—Surface dressing with hot ar or approximately 16,000 super, yd. of carriageways 1961, for U.D.C. Documents from W. S. Pickett, chartered municipal engineer and surveyor, Town Hall, March. Tenders by May 27.

Mitcham, Surrey.—Making up the following for B.C.: (a) Cedars Avenue, Mitcham; and

w. S. Pickett, chartered municipal engineer and surveyor, Town Hall, March. Tenders by May 27.

Mitcham, Surrey.—Making up the following for B.C.: (a) Cedars Avenue, Mitcham; and (b) Lilian Road (completion of), S.W.16. with macadam on hardcore carriageways, kerbing, paving, and incidential works. Documents from the Borough Engineer and Surveyor, Town Hall, Mitcham, Tenders by June 3.

\*Montgomeryshire.—Road surface dressing for C.C. Tenders by May 27.

\*Neath, Glam.—Surface dressing for B.C. Tenders by June 2.

Newcastle-under-Lyme, Staffs.—Surfacing of roads and footpaths on the Oaklands Avenue site, for B.C., comprising approximately 1,100 sq. yd. of tarmac carriageway, 1,050 sq. yd. of tarmac footpath and 390 lin, yd. of kerbing and other ancillary works. Documents from the office of the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle Staffs. Tenders by May 29.

Normanton, Yorks.—Construction of about 2,600 sq. yd. of tarmac footpaths on site 28, for U.D.C. Documents from the Surveyor. Town Hall, Normanton. Tenders by June 3.

Nottingham.—Construction of two bridges. over the Beeston Canal and railway on the

Nottingham.—Construction of two bridges, over the Beeston Canal and railway on the line of the proposed Clifton Boulevard extension, for City Council, Documents from F. M. Little, city engineer and surveyor, The Guildhall, Nottingham, Deposit £15. Tenders by June 15.

\*Oldbury, Worcs.—Stage I, part I, access paths, drainage, etc., for provision of athletics facilities at Newbury Lane for B.C. Deposit £2 2s. Tenders by June 15.
Oldbury, Worcs.—Carriageway surfacing, Lion Farm estate, contract 61/2, for B.C., comprising approximately 3,200 super, yd. of bituminous macadam and 2,700 super. yd. of hot rolled asphalt, together with ancillary works. Documents from the office of the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury. Deposit £2 2s., cheques payable to B.C. Tenders by June 14.
Oldbury, Worcs.—Grafton Road extension, for B.C., including the construction of a length of carriageway and footpaths, comprising of approximately 2,000 cu. yd. excavation, 880 super. yd. of clean asphalt, kerbs and channels and ancillary works. Documents from the office of the Borough Engineer and Surveyor, Municipal Bank Chambers, Oldbury. Deposit £2 2s., cheques payable to B.C. Tenders by June 9.

\*Rawmarsh, Yorks.—Private street works at

\*Rawmarsh, Yorks.—Private street works at Willowgarth, for U.D.C. Deposit £2 2s. Tenders by June 20.

\*Rusilip-Northwood, Middx.—Following contracts, for U.D.C.: Making up of Acacia Avenue (part)—approximately 30 lin. yd. of street in 7in. R.C. carriageway, kerbing and artificial stone paving. Deposit £2 2s.; painting of sewer vent columns—preparation and painting of 170 columns. Documents from the Engineer and Surveyor, Council Offices, Northwood. Tenders by May 29.

\*Sale, Ches.—Surface dressing of carriageways and footways amounting in total to approximately 85,000 sq. yd. for B.C. Documents from the Borough Engineer's Office, Town Hall, Sale. Deposit £2 2s. Tenders by May 31.

by May 31.
\*Shrewsbury, Salop.—Making-up of Granville
Street, for B.C. Deposit £2 2s. Tenders by

June 12.

Southampton.—Chapel Industrial Area, roads and sewers, for B.C., comprising approximately 460yd. of new roads or reconstruction of existing roads, with lean-mix concrete foundations, together with new sewers and ancillary works. Applications to the Borough Engineer, Child Control Statistics of the Porough Engineer.

tions, together with new sewers and anciency works. Applications to the Borough Engineer, Civic Centre, Southampton, by June 15.

\*Southend-on-Sea, Essex.—Municipal airport extensions, 1961. Surfacing contract for B.C. Deposit £2. Tenders by June 2.

\*Staines, Middx.—Resurfacing and improvement to Chertsey Bridge Road, for U.D.C. Deposit £2. Tenders by June 8.

Stockport, Ches.—Work at Meadows Road, Heaton Chapel, for B.C., comprising excavating to formation level in carriageway and footpaths, sewering, drainage, kerbing. excavating to formation level in carriageway and footpaths, sewering, drainage, kerbing, and carriageway construction excluding wearing courses) for a length of approximately 104 lin, yd. Documents from the Borough Surveyor, Town Hall, Stockport. Tenders by

lin. yd. Documents from the Borough Surveyor. Town Hall, Stockport. Tenders by May 29.

Surrey.—Making-up Furzefield Road, Baldwins Hill, Lingfield, with tarmacadam surfacing, footways, kerbing, etc. Approximate length 420yd., for C.C. Documents from Office of County Engineer, County Hall, Kingston-upon-Thames. Tenders by June 3.

Sutton Coldfield, War.—Making-up of Crown Lane, for B.C., including kerbing, paving, resurfacing of approximatey 2,400 sq. yd. of carriageway, and the provision of surface water drainage. Documents from the Borough Surveyor. Council House, Sutton Coldfield, Deposit £2. Tenders by May 25.

\*Swadlincote, Derbys.—Supply and laying plastic white lining, for U.D.C. Tenders by June 5.

Wanstead and Woodford, Essex.—Eastern Avenue housing site, roads and sewers, for B.C., comprising laying approximately 480yd, glazed stoneware and spun-iron sewers, 9in. and 12in. dia., 1,900 sq. yd. of reinforced concrete carriageway, and ancillary works. Documents from Borough Engineer, Municipal Offices, High Road, E.18. Tenders by May 25.

Ware, Herts.—Road construction at site off Watton Road, for U.D.C., involving construction of approximately 730 super, yd, tarmacadam carriageway, with kerbing, footpath, verges, and surface water drainage, and ancillary works. Documents from A. G. Davenport, engineer and surveyor, The Priory, Ware. Deposit £2 S. Tenders by June 9.

Westhoughton, Lancs.—Bolton Road, asphalt surfacing for U.D.C., including the supply

construction, for B.C. Deposit £5. Tenders by June 9.

Westhoughton, Lancs.—Bolton Road, asphalt surfacing, for U.D.C., including the supply and laying of approximately 5,700 super. yd. of hot rolled asphalt surfacing on Bolton Road (from junction with Park Roa2 to Cow Lee Bridge). Documents from the Surveyor. Town Hall, Westhoughton. Tenders by June 2.

West Riding.—Redecking of part of Gildersome Tunnel at the intersection of the Huddersheld-Leeks trunk road, A.62. and the Wakefield-Bradford trunk road, A.650, in the Borough of Morley, for C.C. The contract will

include for the demolition of the existing deck and its replacement by a new deck composed of plated British Standard Beams with precast haunching and slabs supporting in-situ concrete. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Deposit £5, cheques payable to Walding Treasurer. Tenders by July 3.

Whiston, Lancs.—Construction of 6in. thick ready-mixed concrete garage foundations and ancillary works at Knowsley. Approximate area 1,400 sq. yd. for R.D.C. Documents from A. J. Bebbington, engineer and surveyor, Council Offices, Delph Lane, Whiston. Tenders by May 25.

"Whitstable, Kent.—Making-up three roads for U.D.C. Tenders by June 12.

"Willenhall, Staffs.—Footway and drainage works—labour only for U.D.C. Tenders by June 5.

"Willesden. Middx.—Reconstruction."

works—labour only for U.D.C. Tenders by June 5.

\*Willesden, Middx. — Reconstruction of Acton Lane, for B.C. Deposit £2 2s. Tenders by June 6.

\*Woking, Surrey.—Construction of roads and sewers, Maybury estate, for U.D.C. Deposit £2 2s. Tenders by May 29.

Wolverhampton, Staffs.—Development of hostel site, for B.C., including the construction of a service road approximately 800 lin, yd. long, running parallel with Willenhall Road, together with surface and foul water drainage, and ancillary works. Documents from the Borough Engineer and Surveyor, Town Hall, Wolverhampton. Deposit £2 2s. Tenders by June 6.

June 6.
\*Worcester.—All Hallows/Birdport improvement for City Council. Deposit £2 2s. Tenden

ment for City Council. Deposit £2 2s. Tenders by June 5.

"Worcester.—Kerbing, channelling and footway works for City Council. Deposit £2 2s. Tenders by June 5.

Worthing, Sussex.—Construction of approximately 900 sq. yd. reinforced concrete carriageways and 280 lin. yd. of sewers for B. Capplications to the Borough Engineer, Town Hall, Worthing. Deposit £2 2s. Tenders by May 25.

Wreyham. Deposits.—Constructive of

May 25.

Wrexham, Denbighs.—Construction of a reinforced concrete road and the laying of kerbing and sewers in connection with the Ashfield Road development, for B.C. Documents from J. M. Davies, borough engineer and surveyor, Guildhall, Wrexham. Deposit £2 2s. Tenders by May 29. May 25. Wrexham, reinforced c

## SEWERAGE, SEWAGE AND REFUSE DISPOSAL

\*Amesbury, Wilts.—Figheldean and Milston werage for R.D.C. Deposit £5 5s. Tenders

\*Amesbury, Wilts.—Figheldean and Milston sewerage for R.D.C. Deposit £5 5s. Tenders by June 7.

Billingham, Dur.—Low Grange private development area, main intercepting sewer, for U.D.C., including the construction of about 800 lin. yd. of 30in. to 21in. diameter concrete pipe sewers, manholes, and incidental work. Documents from Edwin Shaw, engineer and surveyor, Council Offices, Haverton Hill. Billingham. Deposit £2 2s. Tenders by June 2l.

\*Bridlington, Yorks.—Main drainage, for B.C. Deposit £3 3s. Tenders by June 2l.

Brighouse, Yorks.—Main drainage, for B.C. Deposit £3 3s. Tenders by June 2l.

Brighouse, Yorks.—Industrial estate, Wakefield Road, laying of 548 lin. yd. of läin. diameter concrete pipe surface water sewer, together with the construction of three manholes, for B.C. Documents from the office of the Borough Engineer, Commercial Street, Brighouse. Deposit £1. Tenders by May 2s.

Burnley, Lancs.—Main drainage, central race for B.C., including pressure pointing and grouting, approximately 500 sq. yd. of 4ft. deep egg-shaped brick outfall sewer. Documents from Borough Engineer, 22/24 Nicholas Street, Burnley. Tenders by May 2s.

Downpatrick, Down.—Construction of the Dundrum sewerage scheme, for R.D.C., including the supply and laying of approximately 1.159 lin. yd. 9in. diameter, 648 lin. yd. 6in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and manholes, together with two pumping stations and 793 lin. yd. 4in. diameter sewers and

forced concrete structures); (b) laying of a new system of sewers for the village (approximately 715 lin. yd. of 4in., 6in. and 9in. diameter pipes) and house connections. Documents from Waterhouse and Rounthwaite consulting engineers, 165 Westmorland Road. Newcastle upon Tyne, 4. Deposit £5 5s. Tenders by June 5.
Horsham, Sussex.—Main drainage of Theory of the sewer services of the services of

ments from the consulting engineers, 165 Westmorland Road. Newcastle upon Tyne, 4. Deposit £5 5s. Tenders by June 5. Horsbam, Christ's Hospital, for R.D.C., involving the construction of 3,245 lin, yd, of sinvolving the construction of 3,245 lin, yd, of sinvolving the construction of 3,245 lin, yd, of sin, diameter foul sewers, with 4in, diameter foul sewers, with 1000 gallons per day, Documents from the Surveyor, Comewell House, North Street, Horsham, Deposit £2 2s. Tenders by June 2. \*\*Keighley, Yorks.—Sewer extension, Fell Lane, for B.C. Tenders by June 5. Leyton, Essex.—Reconstruction and repair of sewers, drains, and ancillary works. During the year list June, 1961, to 31st May, 1962, for B.C. Documents from the Borough Engineer, Town Hall, Leyton, E.10. Deposit £2 2s. Tenders by May 25. Linerick, Eire. — Supply of unchokable sewage pumps, together with electric motors, control panels, switch gear, etc., to Rosbrien pumping station, for City Council. Documents from the City Engineer's Office, Town Hall, Limerick, Tenders by June 12. Linelly, Carms. — Extensions to Half-way and Bynea, sewerage scheme, Caernarvon Fawr Farm, Bynea, for R.D.C., comprising: 1, Two sludge digestion lagoons; 2, five sludge drying beds of 4,200 sq. yd.; 3, 6in, and 4in, cast iron rising mains and pumping station, together with manholes and all ancillary works. Documents from the Engineer, Castle Buildings, Llanelly, Deposit £5 5s, Tenders by May 25.

\*\*Maldon, Essex.—Main sewerage and sewerage and sewerage and sewerage and sewerage for R.C. Applications by

Maldon, Essex.—Main sewerage and sewage disposal scheme, for B.C. Applications by

'Maldon, Essex.—Main sewerage and sewage disposal scheme, for B.C. Applications by May 27.

'Market Bosworth, Leics.—Sewerage extensions in parish of Twycross, for R.D.C. Deposit £2 2s. Tenders by June 10.

'Newbury, Berks.—Thatcham sewerage, N41 contract 1, for R.D.C. Deposit £5 5s. Tenders by June 14.

'Osgoldcross, Yorks.—Beal and Cridling Stubbs—contract 4, for R.D.C. Deposit £10.

Pontefract, Yorks.—Gallows Hill and Hill-crest Avenue, Townville, sewerage, for B.C., including the construction of approximately 390 lin, yd. of 9in. dia., 360 lin, yd. of 6in. dia. and 115 lin. yd. of 4in. dia. sommal salt glazed ware drain connections, together with brick and concrete balancing tak 40ft, x 10ft. x 5ft., manholes inspection chambers, and ancillary works. Documents from the Office of the Borough Engineer, Municipal Offices, Pontefract. Tenders by May 29.

St. Ives, Hunts.—Houghton Road sewer, 530 contract 2, for B.C., including the construction of the severage of the severage of the construction of the severage of the construction of the severage of the construction of the severage of the severage of the construction of the severage of the construction of the severage of the severage

May 29.

St. Ives, Hunts.—Houghton Road sewer, S30 contract 2, for B.C., including the construction of approximately 291yd, of small diasewer, and other ancillary works. Documents from the offices of Howard Humphreys and Sons, consulting engineers. West Street, Eppom, Surrey, by 4 p.m., May 26. Deposit 15 Sa., cheque payable to B.C. Plans also seen at the Council Offices, Town Hall, St. Ives. Tenders by June 7.

by Son, Suriey, and Son Seen at the Council Offices, Town Hall, St. Ives. Tenders by June 7.

Scanthorpe, Lines.—Construction of West-clif Sewage Pumping Station No. 1, at Scotter Road, for B.C., including a reinforced concrete substructure, brickwork, superstructure, approximately 370 lin, yd. of 10in, dia cast iron rising main and ancillary works. Documents from the Office of the Borough Surveyor, Lancham Street, Scunthorpe. Deposit £2 2s. Tenders by June 6.

South Eas: Derbys.—Alvaston and Boulton Sewerage and Stocker Flat sewerage, for R.D.C. Deposit £10 l0s. Tenders by July 3.

Stroud, Glos.—Following sewerage construction work, for R.D.C.: Bisley, construction to sever involving the laying of approximately 189d, of 4in. asbestos sewerage pipe and the construction of manholes; Ryeford, Stone-house, conversion of pumping main and construction of stormwater drain involving the

Joyd. of 4in. asbestos sewerage pipe and the construction of manholes; Ryeford, Stone-house, conversion of pumping main and construction of stormwater drain, involving the laying of approximately 140yd, G.S.S. pipes, and 9dyd, of 4in. class B pressure pipes. Documents from G. E. G. Gadsden, clerk to the council, Council Offices. Stroud. Deposit £2 2s. "Swinton and Pendlebury. Lancs.—Laying sewer in Agecroft Road, for B.C. Tenders by June 12. Tavistock, Devon.—Construction and maintenance of a sewage disposal works, comprising of a detritus tank, settlement tank, percolating filer, humus tank, small pumping station, 3½ miles of 6in. dameter stoneware sewers. manholes, and all other works incidental thereto the Mary Tavy, for R.D.C. Documents from 1 Mary Tavy, for R.D.C. Tenders by June 12.

Wigan, Lanes.—Shevington Moor Sewerage, contract No. 2, for R.D.C., including the following works: (a) Approximately 500 lin, yd. of 6in. sewers, with manholes; (b) a small pumping station and pumping main; (c) approximately 600 lin. yd. of 4in, and 6in. house drains. Documents from the offices of Charles J. Lomax and Son, chartered civil engineers, 68 Barton Arcade, Deansgate, Manchester, 3. Deposit £2 2s., cheque payable to R.D.C. Tenders by June 5.

Worksop, Notts.—Construction of a new surface water sewer 9in. in dia, and approximately 110yd. in length, in a heavily trafficked road in the centre of the town, for B.C. Documents from the Borough Engineer, Park House, Worksop, Deposit £5 5s. Tenders by June 5.

"Wrexham, Denbighs.—Sewage ejector station, Nursery Site, Regent Street, for B.C. Deposit £2 2s. Tenders by June 5.

#### STREET LIGHTING

Ayr.—Lighting of roundabouts on Kilwinning by-pass road, for C.C.: (1) Supply of concrete standards; (2) supply of electrical equipment; (3) work of erection; (4) supply of lanterns for 140W. SO/H lamps. Applications to the Water and Drainage Engineer, County Buildings, Ayr.

"Cheshunt, Herts.—Provision of improved street lighting, for U.D.C. Deposit £2. Tenders by June 13.

"Ealing, Middx.—Street lighting contracts A and B, for B.C. Deposit £5 each. Tenders by May 30.

"Ealing, Middx.—Street lighting contracts A and B, for B.C. Deposit £5 each. Tenders by May 30.

Enniskillen, Fermanagh. — Conversion of existing pole, column and wall-mounted mercury vapour street lights to fluorescent lanterns, including supplying and erecting new columns, adaptors and brackets where necessary, for B.C. Documents from the Borough Surveyor, Town Hall, Enniskillen. Tenders by June 12.

Wallasey. Ches.—Supply to Mill Lane

June 12. Wallasey, June 12.

Wallasey, Ches. — Supply to Mill Lane Depot of the following street lighting equipment for B.C.; 52 reinforced concrete group B street lighting columns; 52 post top group B street lighting lanterns. Documents from the Borough Engineer and Surveyor, Town Hall, Wallasey. Tenders by June 7.

#### AWARDS

#### **BUILDING AND DECORATING** (See also Housing Schemes)

Alnwick, Northumb.—Erection of a new grammar school for the Convent of Mercy. Reavell and Cahill, architects, Lloyds Bank Chambers, Alnwick—Stanley Miller, Ltd., 17 North Street, Newcastle upon Tyne. Work commenced.

Tyne. Work commenced.

Bamburgh, Northumb. — Additions at the Bamburgh Castle Hotel for Hunt and Graham—Charles Inkster, Paikes Street. Alnwick. Work in hand.

Jeddington of extension to Civil Defence headquarters for B.C.—F. H. Claridge and Son, Ltd., 105 Stafford Road, Wallington, 51.710.

E1.710.

Bedlington, Northumb.—Erection of shop premises and warehouse at The Square, Guide Post, for Walter Willson, Ltd.—E. Nixon and Son (Shopfitters). Ltd., 17 Stepney Road, Newcastle upon Tyne. Factory extension for Thermalite Ytong, Ltd.—John Laing and Son, Norham House, New Bridge Street, Newcastle upon Tyne.

Belford. Northumb.—Erection of new offices for R.D.C. R. Turley and Associates, architects, 46 Jesmond Road, Newcastle upon Tyne-Graham and Son, Haslam House, Westeroft Road, Newcastle upon Tyne. Work not yet started.

Birmingham.—Following for City Council.

House, Westcroft Road, Newcastle upon Tyne. Work not yet started.

Birmingham.—Following for City Council.

A. G. Sheppard-Fidler, city architect: Erection of community centre at Nechells Green—Wates, Ltd., 94 Hagley Road, Edgbaston, Birmingham, 16, £53,983; alterations and extensions to Oldknow Secondry School—Smith Bros. (Construction), Ltd., Stratford Road, Sparkbrook, Birmingham, 11, £114,800; erection of community centre at Shard End—George Stubbings, Ltd., 201 Streetly Road, Erdington, Birmingham, 23, £41,752.

Blackburn, Lancs.—Extensions at Belper Street baths for B.C.—James Whittaker and Son (Blackburn), Ltd., Bastwell, Blackburn. Estimated cost £36,037. Work to commence as soon as possible.

Brighton, Sussex.—Reconstruction of the Albion public-house, Albion Street, for Tamplin and Son's Brewery, Brighton. Ltd.—Saunders Watts, Ltd., 16 Richmond Place, Brighton, 7. Estimated cost £11,783. E. A. Whittaker is the staff architect and Knight and Benwell, Queen's House, 12

Queens Square, Brighton, I, are the quantity surveyors for the scheme. Work has commenced.

Bromley, Kent.—Conversion of the ground floor of Thornbury, Elmfield Road into consulting rooms and the erection of 120 store sheds at London Road, Hope Park, Weston Grove and Tylney Road flats for B.C.—H. L. Beerling, 67a Bourne Road, Bromley, £1,035, and S. E. Wright and Son, Ltd., Lewes Road, Bromley, £5,205, respectively (recommended).

Caernarvon.—Construction of 2B traditional type garages, together with ancillary site works on housing estates (scheme 4) for B.C.—Emrys Rowlands, Bryn Mair, Ael-y-Garth. Caernarvon, £5,474.

Camberwell.—Supply and construction of a sprung floor at Dulwich Baths Large Hall for B.C.—Francis Morton (Spring Floors), Ltd., £5,523 (recommended).

Chanctonbury, Sussex.—Improvements to 20 pre-war Council houses at Brookview. Coldwaltham, for R.D.C. E. L. Blake and Co., Pulborough, £7,397.

Cheltenham, Glos.—Following for B.C.: Reconditioning of 52 Burton Street and 158 Swindon Street—L. G. Yeates, 4 Gloucester Street, Winchcombe, Cheltenham, £809, respectively; restoring the stonework to the Clarence Street elevation. Central Library—Western Stone Cleaning and Restoration Co., Ltd., 52 Broad Street, Bristol, I, £924 (recommended).

Dewsbury, Yorks.—Following for B.C.: Redecoration of Victoria Hall—Fred Bean, Ltd., Cleckheaton, £814; provision of a shelter over the pitching area in the open market—Fred Hart, 16 Jessamine Street, Ravensthorpe, Mirfield, £3,147 (both recommended).

Doncaster, Yorks.—First phase of the new building in Wood Street for the Y.M.C.A.

Ravensthorpe, Manager and Mana

Doncaster, Yorks.—First phase of the new building in Wood Street for the Y.M.C.A. H. A. Hickson and Son, architects, 51 Hallgate, Doncaster—J. Dixon (Doncaster). Ltd.. Balby, Doncaster. Estimated cost £30,000.

Dudley, Worcs.—Construction of youth club at Brewster Street School for B.C.—K. F. Badger, Kingswinford, Brierley Hill, Staffs., £4,607 (recommended).

Felling-on-Tyne, Dur.—Sub-trades placed by the U.D.C. for erection of new swimming baths. J.H. Napper and Partners, architects, 133 Osborne Road, Newcastle upon Tyne. Structural steelwork—J. W. Ellis and Co., Ltd., Newcastle upon Tyne, £16,193: electrical installation—North of England Engineering and Electrical Co., Ltd., Ferry-hill, £8,916; filtration installation—Turn Over Filter Co., £12,95; mechanical engineering services—Norris Warming Co., Ltd., Newcastle upon Tyne, £12,473. Tenders for the general building contract are due to be received by the end of this month, and the work is expected to be let towards the end of June. Fulbourn, Cambs.—Construction of an admission villa at Fulbourn Hospital for the East Anglian Regional Hospital Board—Coulson and Son, Ltd., 37 St. Andrews Street. Cambridge, £243,738 (recommended, subject to Ministry approval).

Grays, Essex.—Erection of a new school block at Ardale Approved School, Stafford, near Grays, for L.C.C.—F. R. Hipperson and Son, Ltd., Dagenham, Essex, £43,171 (accepted); H. C. Horswill, Ltd., £44,992; William J. Jerram, Ltd., £45,362; S. C. Grover, Ltd., £48,249.

Haslingden, Lanes.—Provision of toilet accommodation at Municipal Offices and 57 Bury Road for B.C.—J. Stevenson and Sons, Haslingden, Lanes.—External painting and ancillary repairs to following dwellings for B.C.: Seventy-two houses at Sarkey Lane—Sussex Decorators, Ltd., Hastings, £1,374; 80 houses and flats at Down Farm estate No. 1—Corbens, Ltd., Hastings, £1,486 and £1,099, respectively; 78 houses and flats and Harris, Briarwood Mill Road, Fareham, Hants.

Hoddesdon, Herts.—Erection of a R.C. church at Esdaile Lane for the Trustees of th

Briarwood Mill Road, Fareham, Hants.

Hoddesdon, Herts.—Erection of a R.C. church at Esdaile Lane for the Trustees of the R.C. Arch Diocese of Westminster—Marshall Andrew and Co., Ltd., St. Andrew's House. London, S.W.I. estimated cost £45,000; Justin H. Alleyn, architect, la Berners Street, London, W.I.; and Davis Belfield and Everest, quantity surveyors, 9 Ashley Place, London, S.W.I.

Hongerford, Berks.—Modernisation of Cecil Cottage. Great Shefford, for R.D.C.—F. J. Lewis and Son, Church Street, Great Shefford, £5,162 (negotiated tender).

Huntingdon

funtingdon (Correction).—Erection of a factory for use by C.R.S. (Cartons), Ltd., for B.C.—B.D. Steel Structures, Ltd., Bateman Street, Derby, £49,007. (Not as stated in May 4 issue.)

Bywich, Suffolk.—Improvements to the Central Library for B.C.—Sadler and Sons. 81 Richmond Road, Ipswich, £13,510 (subject to Ministry approval).

ambeth.—Erection of the superstructure for the completion of the north and south blocks of the County Hall for L.C.—W. J. Simms, Sons and Cooke, Ltd., Croydon, Surrey, £379,056 (accepted); Griggs and Son, Ltd., £384,407; Rowley Bros., Ltd., £385,779; Holland & Hannen and Cubitts (Great Britain), Ltd., £389,932; Rush and Tompkins, Ltd., £395,787; The Demolition and Construction Co., Ltd., £398,891; Trollope and Colls, Ltd., £399,400; Wates, Ltd., £402,796; Tersons, Ltd., £405,448; M. J. Gleeson (Contractors), Ltd., £406,623; Leslie and Co., Ltd., £409,662.

(Contractors), Ltd., £406,023; Leslie and Co., Ltd., £409,662.

Lambeth.—Erection of stage I of Loughborough Depot for B.C.—Whyatt (Builders), Ltd., 225 Streatham High Road, London, S.W.16, £80,979 (recommended): H. T. Oliver and Sons, Ltd., £81,987; A. T. Rowley (London), Ltd., £81,444; Ward and Paterson, Ltd., £84,687; Prestige and Co., Ltd., £86,543; F. and H. F. Higgs, Ltd., £86,882.

Leamington Spa, War.—Following for B.C.: provision of a timber prefabricated building for erection in Jephson Gardens—Wigfield and Pluck, Norton Lindsey, Warwick £2,557; external painting of 38 houses (contract 2)—Daly and Son, 316 Stoney Stanton Road, Coventry, £589; 56 houses (contract 4), 34 houses and 12 flats (contract 8) and 36 houses (contract 14)—Philpot Bros. Yardley Street, Coventry, £717, £676 and £553, respectively; 42 houses (contract 12) and 48 (contract 13)—Lewis and Watters, Lime Avenue, Leamington Spa, £722 and £806, respectively (recommended).

and 48 (contract 13)—Lewis and Watters, Lime Avenue, Leamington Spa, £722 and £806, respectively (recommended).

Leeds. — External painting of properties on various estates for City Council: Five hundred and four—H. Ward, 42 Bayswater Terrace, Leeds, 8, £5,236; 452—Crown Point Decorators, Ltd., 43 Grove Road, Halton, Leeds, 15, £6,990; 516—McKenna Brothers, 97 Kentmere Avenue, Leeds, 14, £5,429; 112—P. A. Cawthron and Son, Ltd., 167 Beeston Road, Leeds, 11, £1,17; 365—Home Renovators, Ltd., 17 Chelwood Mount, Leeds, 8, £4,213; 440—M. Hitchen, 6 Raynville Road, Leeds, 12, £4,408; 64—H. Hazelgrave, 39 Moor Flatts Avenue, Middleton, Leeds, 10, £696; 266—H. R. Stott and Son, Ltd., 303 Roundhay Road, Leeds, £2,718; 318—A. V. Cook and Co., Ltd., 35 Holborn Street, Leeds, 6, £5,476; 88—A. M. Youngs and Son, Ltd., 17 Carr Manor Parade, Leeds, 17, £1,097.

External painting of 55 miscellaneous properties—Crown Point Decorators, Ltd., £1,011 (all recommended).

Middlesbrough, Yorks. — Erection of staff canteen at General Hospital for Newcastle upon Tyne Hospital Board. P. H. Knighton, Board's chief architect: Builders—Hudson Brothers, Fidler Street, Middlesbrough, £22,942; mechanical engineering services—I. T. Leake and Co., Ltd., Back Hanover Square, Newcastle upon Tyne, £1,716.

Newcastle upon Tyne.—Erection of scienc: and mathematics block at Eldon Place for King's College, Richard Sheppard, Robson and Partners, architects, 5 Southampton Place, London, W.C.1—Stanley Miller, Ltd., 17 North Street, Newcastle upon Tyne.

Erection of supermarket in Newgate Street for Moores Stores, Ltd.—Cussins, Ltd.—Trans.

Erection of supermarket in Newgate Street for Moores Stores, Ltd. — Cussins, Ltd., The Drive, Gosforth, Newcastle upon Tyne.

Tyne.

Structural steelwork in connection with new boilerhouse at General Hospital for Regional Hospital Board—Lambhill Ironworks, Ltd., 119 Jesmond Road, Newcastle upon Tyne, £13,591.

Erection of warehouse in Fisher Street for Tudor Food Products, Ltd., Peterlee. Beard, Bennett, Wilkin and Partners, architects 101 Baker Street, London, W.1—Bovis, Ltd., London. Work in hand.

—Bovis, Ltd., London. Work in hand.

Norwich.—Erection of garages at the following sites for City Council: 16 at Sandy Lane/Cooper Lane estate, 12 at Tuckwood estate and 29 at West Earlham estate—Ford and Carter, Ltd., Baltic House, Mountergate, Norwich, £3.563, £2.867 and £6.600, respectively; 15 at Woodlands estate—Lansdale and Falconbridge, Ruskin House, Woodlands Road, New Costessy, Norwich. £3.274 (recommended, subject to Ministry approval).

Nottingham.—Alterations and additions to X-ray department at Children's Hospital for Sheffield Regional Hospital Board—Allicock and Sisson, Ltd., Eastwood, Nottingham, £3,937.

Ormskirk, Lancs. — External painting of 389 Council houses in Ormskirk and Burscough for U.D.C. — North Western Decorators, Ltd., Southport, £4,889.

Tor U.D.C.—North Western Decorators, Ltd., Southport, £4,889.

Peterborough.—Construction of the third and fourth instalments of the Technical College for the Joint Education Board. Main contractor: B. Stokeley, Ltd., Eastfield Road, Peterborough, £209,729; supply of structural steel and fabric reinforcement — G.K.N. Reinforcements, Ltd., Smethwick, £8,161 (recommended).

Portsmouth, Hants.—Following for City Council: Improvements and provision of accommodation for aged persons at St. Mary's House, Clayton. Black and Petch, architects, 25 Landport Terrace—John Lay and Co. (Portsmouth), Ltd., 207 Arundel Street, Portsmouth, £48,988 (recommended, subject to Ministry approval).

Provision of an additional workshop bay at Highbury Technical College—Portsmouth, Gosport and District Builders' Guild, Ltd., 28a Kington Road, Portsmouth (recommended extension of contract). Estimated cost £17,500.

Modernisation of Horndean House—R. W. Bailey, Ltd., 330 Connor Road.

Ltd., 28a Kington Road, Portsmouth (recommended extension of contract). Estimated cost £17,500.

Modernisation of Horndean House—R. W. Bailey, Ltd., 339 Copnor Road, Portsmouth, £17,087 (recommended): Henry Jones and Son (Portsmouth), Ltd., £17,108; Barnes and Elliott, Ltd., £19,129.

Alterations and improvements at 11 Alexandra Road—Henry Jones and Son (Portsmouth), Ltd., 35 Aldwell Street, Portsmouth, Ltd., 35 Aldwell Street, Portsmouth, E817 (recommended); T. Coleborn and Son, £968; Ronald William King, £998; G. Winter and Sons, £1,041; James Alec Bell, £1,129; L. V. Evans, £1,152; Bicknells, Southsea, Ltd., £1,168; Raiph W. Bailey, Ltd., £1,174; E. F. Hoy, £1,290.

Alterations and improvements at 123 Prince Albert Road—Henry Jones and Son (Portsmouth), Ltd., £845 (recommended); T. Coleborn and Son, £962; James Hibberd, £974; Bicknells, Southsea, Ltd., £994; L. V. Evans, £998; Ralph W. Bailey, Ltd., £1,027; G. Winter and Sons, £1,049; E. F. Hoy, £1,057; James Alec Bell, £1,077; Ronald William King, £1,102.

Modernisation and repairs at Beresford House (eight flats)—Henry Jones and Son (Portsmouth), Ltd., £8,200 (recommended); Barnes and Elliott, Ltd., £8,470; John C. Nicholls, Ltd., £8,700.

\*\*Otters Bar, Middx.—External painting of 211 houses at various estates for U.D.C.—Direct

Barnes and Entotic Ltd., 26,770, John S. Nichols, Ltd., £8,700.

Potters Bar, Middx.—External painting of 211 houses at various estates for U.D.C.—Direct Labour.

Redcar, Yorks.—Painting of 386 Council houses for B.C.—A. Dass, 19 Garnett Street, Saltburn-by-Sea, Yorks., £3,800.

Ripon, Yorks.—Painting 171 houses for City Council—H. Swindells, 1 Crescent Parade, Ripon, £2,443 (recommended).

Rochdale, Lanes.—Following for B.C.: Alterations to housecraft rooms at Girls' Grammar and Parish Church Schools—I. A. Mills and Sons, Smithy Bridge, Little-borough, Lanes., £9,132; improvements to 74, 76 and 80 Bishop Street—T. Eastwood, Entwisle Road, Rochdale, £819 (both recommended).

Entwisie Road, Roendale, 2019 (Both Feesingmended).

Royston, Yorks. — External painting of 218 houses on the Pinfold and Queensway estates for U.D.C.—C. Spinks, Royston, Barnsley, £399, and Thawley and Dickinson, Hoyland, Barnsley, £3,060. Work just companied to the property of the pr

Salford, Lancs.—Erection of Springfield extension to warehouse and offices at Ordsall Lane, for Colgate-Palmolive, Ltd.—A. Monk and Co., Ltd., Padgate, Warrington. Estimated cost £675,000. Harry S. Fairhurst and Son, architects, 55 Brown Street, Manchester, 2, and Brown and Spencer, 26 Cross Street, Manchester, 2, are the quantity surveyors.

veyors.

Scunthorpe, Lincs.—Following for B.C:

Erection of boundary wall between the youth centre and the annexe—F. F. Brown, 136 Doncaster Road, Scunthorpe, £2,567; provision and crection of bus shelters—Blakeley (Sheffield), Ltd., Bridge Works.

Hope, Sheffield, £956 (recommended)

Works. Hope, Sheffield, £956 (recommended).

Seaham, Dur.—Erection of eight shops and flats on the Westlea estate for the U.D.C. A. Barratt, surveyor—W. M. Glass, Ltd., Melrose House, Ryhope, Sunderland.

Southend-on-Sea, Essex.—Following for B.C. P. F. Burridge, borough architect: Extensions at Eastwood High School for Girls, Rayleigh Road, Eastwood—A. and C. Barvis, Ltd., Manor Works, Church Road, Thundersley, Essex, £53,303 (accepted); Gray Conoley and Co., Ltd., £54,249; A. D. Jackson and Son, Ltd., £56,074; Hodgson (Wickford), Ltd., £57,446; J. C. Flaxman and Sons, Ltd., £59,730.

Sports pavilion Recreation Garage Sports pavilion at Jones Memorial Recreation Ground, Eastern Avenue-Hosking and Son (Essex), Ltd., Artenial Road, Rayleigh, Essex, £12,600 (accepted), Ltd., £13,540; Jackson and Son (Contractors), Ltd., £12,918.

Hodgson (Wickfords, Ltd., £13,622; A. D. Elackson and Son (Contractors), Ltd., Southport, Lancs.—Alterations and catensions to Floral Hall for B.C.—Thomas £26,661 (recommended).

South Shields, Dur.—Re-building Martins Bank, Laygate. Reavell and Cahill, architects, Lloyds Bank Chambers, Almyker Milton Swales, Ltd., Imeary Street, South Shields. Work commenced.

Spenborough, Yorks.—Erection of the new Hightown C.E. School on Headlands Road. Liversedge, for West Riding C.S. Armitage and Sons, Dewsbury, £7,100. Work about to commence.

Stoke-on-Trent, Staffs.—Erection of a departmental store between Lamb Street and Fountain Square for Lewis's, Ltd.—Taylor-Woodrow Construction, Ltd., Southall, Middx. Estimated cost £1,355,000. Sir Percy Thomas and Son, architects, Ireland Mansion, High Street, Shrewsbury, in association with Wood, Goldstraw and Yorath, 36 Cheapside, Hanley, Stoke-on-Trent; William Jones, structural consultant, Dale Street, Liverpool; W. T. Hills and Co., quantity surveyors, 69 Wyle Cop. Shrewsbury; B. H. Lambert, mechanical consultant, Lewis's, Ltd.—Benolition work.

consultant, Lewis's, Ltd. Demolition work commenced and building work commencing June 1.

Swindon, Wilts.—Following for B.C.: Supply and erection of buildings at Savernake Street—Pratten and Co., Midsomer Norton, Bath, £15,600; provision of an oil reclamation store at the industrial estate—Wilsons (Swindon), Ltd., 90 Commercial Road, Swindon, £2,109 (recommended).

Erection of toilet and washing facilities at the Moredon Depot—Direct Labour (recommended). Estimated cost £2,250.

Tynemouth, Northumb. — Painting of street lamps and signs for B.C.—Milner and Dyson, Idle, Bradford, £1,056.

Wandsworth.—Erection of an adult education and youth centre at Alton estate for L.C.—H. T. Oliver and Sons, Ltd., £48,338; J. M. Hill and Sons, Ltd., £48,338; J. M. Hill and Sons, Ltd., £48,379; Sims and Russel, Ltd., £53,1114; Wates, Ltd., £56,072.

Wandsworth.— Erection of a public convenience.

R. H. Lynn and Co., Ltd., £48,508; J. M. Riu and Sons, Ltd., £48,608; A. T. Rowley (London), Ltd., £49,879; Sims and Russell, Ltd., £53,114; Wates, Ltd., £56,072.

Wandsworth. — Erection of a public convenience at Streatham Cemetery for B.C.—C. Crook and Sons, Ltd., £295 (recommended); Anglo Scottish Construction Co., Ltd., £3,777; Allard and Saunders, Ltd., £3,861; M. Howard (Mitcham), Ltd., £3,912; J. Garrett and Son, Ltd., £3,914; Howard Brothers and Strong, Ltd., £4,389.

Reorganisation of the accommodation at Earlsfield Library for B.C.—James Pavey, Ltd., 2 Weir Road, London, S.W.12, £5,61 (recommended); J. Garrett and Son, Ltd., £5,997; Anglo Scottish Construction Co., Ltd., £6,041; M. Howard (Mitcham), Ltd., £6,249; Tamworth Park Construction Co., Ltd., £6,596; Whyatt (Builders), Ltd., £7,190.

West Bromwich, Staffs.—Following for B.C. Construction of a practical block at George Salter School — Direct Labour, £42,416 (recommended); George Webb and Son, Ltd., £44,355; W. and J. Webb, Ltd., £45,437; F. Deeley, Ltd., £45,629.

Replacement of dance floor in the Gala Hall—Francis Morton (Spring Floors), Ltd. Hayes, Middx. (recommended). Estimated cost £2,250.

Construction of school meals wash-ups and serveries at the Hill Top Secondary Boys' and Girls' Schools—Direct Labour, £4,800 (recommended).

Vesteott, Surrey.—Improvements and repairs to the village centre. B. Greenfield, architect, 173 High Street, Dorking—A. J. Canter and Sons, Ltd., Main Road. Westcott, Dorking, £7,992 (subject to M.E. approval.

Westminster.—Erection of a 10-storey block of offices and flats, to house the Royal Thames Yacht Club on the first three Boors for Bernard Sunley Investment Trust, Ltd. Guy Morgan and Partners, architects, 12 Eaton Square, London, S.W.I.—Bernard Sunley and Sons, Ltd., £3, Erkeley Square, London, W.I. Estimated cost £400,000.

Whitley Bay, Northumb.—Alterations of Clewer Green Primary School. Halheads Road, Whitley Bay, 1900.

Caversham Road, Reading—W. Varney, Ltd., 13 Clewer Hill Road, Windsor. Estimated cost £25,000. Work has just

Ltd., 13 Clewer Fill Road, windsol, Estimated cost £25,000. Work has just commenced.

Wercester. — Following for City Council Interior redecoration of A and C blocks and painting the boundary fencing at the redecoration of Street Chambers, Training College. — Pimm and Yoyle, Ltd., Evesham Street Chambers, Redditch, £1,286 and £822, respectively; external redecoration at Gorse Hill Primary School—Daniel Decorations (Birmingham), Ltd., 98 Pristol Road South, Birmingham, 31, £698 (recommended).

Worley, Yorks., — Following for R.D.C. Arthur Wikeley, engineer and surveyor: Construction of refuse collection depot, off Greno Crescent, Grenoside (stage II)—Vickers and Sharman, Hoyland, Barnsley, Supply and erection of 13 multiple garages on two sites at Oughtibridge, near Sheffield—Panellite Structures, Leeds.

Vorkshire—Supply and erection of steel frames at Laund Wood booster station, near Whitewell, Yorkshire, for Fylde Water Board—The Quayside Engineering Co., Ltd., 11/13 Brougham Street, Stockton-on-Tees, Dur. Work commencing June 9.

### CLOTHING AND TEXTILES

Surbiton, Surrey.—Supply of uniforms for the year commencing July 1, 1961, for B.C.—City Uniform Manufacturing Co., Excel House, Whitcomb Street, London, W.C.2, £377 (recommended).

Aylesbury, Bucks.—Demolition of 13, 15 and 17 Holland Road for B.C.—Smith Sections, 338 Swindon Road, Cheltenham, £101 (recommended). Saidey, Yorks.—Demolition of the Hotel and adjacent buildings for B.C.—J. Hargreaves, 819 Bradford Road, Batley, 599.

8399.

Bedley, Kent.—Demolition, of the barn at the Green, Welling, for B.C.—George Smith and Son, Slade Green, Erith, £82 (recommended).

Son, Slade Green, Erith, 204 (recommended).

Cernarvon.—Demolition of 43 terrace
cottages and outbuildings, a garage, joiner's
snop and builder's yard, together with the
general clearing and levelling of the site
and fencing works at Pool Hill/Pool Side
for B.C.—W. I. Roberts and Son, Caernarvon, £2,501.

Cambervelli—Demolition of properties in

for B.C.—W. I. Roberts and Son, Caernarvon, £2,501.

Camberwell.—Demolition of properties in development area 4, Atwell Street, for B.C.—Lewisham Demolition Contractors, Ltd. (recommended).

Leamington Spa, War.—Demolition work in the King Street/Queen Street clearance area for B.C.—Clarke Bros. (Leamington). Ltd., 34 Clarendon Street, Leamington Spa, £1,447 (recommended).

Margate, Kent.—Demolition of Black Cottage, Manston Road, for B.C.—S. C. Gaskin, Ashford, £90 (recommended).

Morley, Yorks.—Demolition and site clearance of 37 and 39 Moorside Road, Drighlington, for B.C.—Benstead Industries, Ltd., Isle Lane, Leeds, 11 (recommended).

#### ELECTRICAL

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Hindley, Lancs.—Re-wiring and installation of three-pin socket outlets in approximately 140 pre-war council houses for U.D.C. G. Bennett, housing manager—W. H. Clarke, 80 Market Street, Hindley, Wigan, £33 (accepted); Jas. McLennan, £1,391; Geo. Dickinson, £2,255; F. Mort, £1,105; W. Ackers, £1,710; G. Hayes, £1,369; W. Hurst, £1,218.

Newark, Notts.—Electrical services for centralisation of boiler plant at Newark Hospital for Sheffield Regional Hospital Board—R. G. McConnell, Newark, £1,297 (recommended).

(recommended).

frecommended).

Swansea.—Electrical installation at Training College—assembly hall, gymnasium and dining room block for B.C.—Clarke Bros. (Stroud), Ltd., Stroud, £7,039.

Stroud, Ltd., Stroug, £7,339.

Wandsworth. — Modernisation of electrical installations at various estates for B.C.—
Elraes, Ltd., 46 Balham High Road, London, S.W.12, £7,548 (recommended): Holiday Hall and Stinson, Ltd., £7,735; Iverson (Electrical), Ltd., £7,910; L. H. Carter (Electrical), Ltd., £8,390.

#### FENCING

FENCING

Coine, Lancs.—Provision of a concrete post and plastic-covered chain-link wire fence around land to the north of the abattoir tor B.C.—Durofencing (Northern), Ltd., Eccles (recommended).

Swindoa, Wilts.—Erection of wrought-iron railings and gates and stone and brick plers and screen walls to form the York Road entrance to Queen's Park, for B.C.—John Pattison (Swindon), Ltd., Bramble Road, Swindon (recommended, extension of contract). Estimated cost £1,344,

#### GAS AND WATER SUPPLY

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Birmingham.—New works at Minworth—
Saltley to Minworth sewer, contract 1,
comprising construction of sewer works in
tunnel, for Birmingham Tame and Rea District Drainage Board. R. Vincent Daviss,
engineer to the Board—Sir Robert
McAlpine and Sons, Ltd., 80 Park Lanc,
London, W.I, £865,610 (accepted);) A.
Waddington and Son, Ltd., £1,214,237;
Mitchell Bros., Sons and Co., Ltd.,
£1,207,038; Balfour, Beatty and Co., Ltd.,
£1,207,755; Charles Brand and Son, Ltd.,
£1,140,946; John Mowlem and Co., Ltd.,
£1,111,487; Kinnear Moodie and Co.,
Ltd., £932,184. Now approved by Ministry. See issue May 4.

Blackpool, Lancs.—Supply of two chlorinators,

Blackpool, Lanes.—Supply of two chlorinators, two electrically driven pumps, and ancillary equipment at Hodder Works for Fylde Water Board—Chlorination Equipment, Ltd., 129 Kingsway, London, W.C.2. Work commencing June

Benhall Farm estate, for B.C.—Woodlands (Worcestershire), Ltd., Four Pools Farm, Evesham, £3,045 (recommended).

Evesham, £3,045 (recommended).

Garstang, Lancs.—Supply, etc., of flow and pressure recording apparatus and remote supervisory equipment for the Wyre Lane borehole, for Fylde Water Board—George Kent, Ltd., Biscot Road, Luton, Beds. Work commencing Aug. 8.

Liverpool. — Laying of pipes for the Aspull Reservoir By-pass for City Council—Direct Labour (recommended). Estimated cost £11.800.

£11,800.

London.—Supply and installation of gas water heaters in 456 dwellings at Broadway estate. Bethnal Green, Obam House, Poplar, Coventry Cross and Ranwell Close estate, Poplar, and Haggerston estate, Shoreditch, for L.C.C.—William Edgar and Son, Ltd., Isleworth, Middx., £21,053 (accepted); F. J. Baynes and Co., Ltd., £21,531; North Thames Gas Board, £21,868; W. G. Spittle, Ltd., £22,140; J. C. Spooner and Son, Ltd., £22,2157; Stitson, White and Co., Ltd., £22,402; Ellis (Kensington), Ltd., £22,402; Ellis (Kensington), Ltd., £22,404.

Middlesbrough, Yorks.—Supply of steel pipes

k22,402; Ellis (Kensington), Ltd., k22,449.
Middlesbrough, Yorks.—Supply of steel pipes for the Tees Valley and Cleveland Water Board—South Durham Steel and Iron Co., Ltd., Middlesbrough (contract 126)—section 1, £147,871, and section 2, £187,294; (129)—£245,747; (131)—section 1, £99,698, and section 2, £57,287, respectively.

orth Wales.—Intake works, treatment works and reservoir (reference C.19/2, contract 4) for Llyn Conwy Water Board, comprising the construction, in North Wales, of a lake intake, a treatment works for 0.75m, gallons per day, and a treated water reservoir of 150,000 gallons capacity, together with access road, buildings, mains, and other incidental works. Howard Humphreys and Sons, consulting engineers, West Street, Epsom, Surrey—Norman Hughes and Co., Ltd., Brickfield Lane, Ruthin. Estimated cost £66,000. Work to commence shortly, ichmond. Yorks.—Barton and Newton

Richmond, Yorks.—Barton and New Morrell water supply scheme for R.D.C. J. T. Powell, surveyor.—J. Wigley, Kirkbymoorside, £9,187. Newton

Wigley, Kirkbymoorside, £9,187.

Swindon, Wilts.—Supply of following for B.C.: Purification plant for the swimming baths—Bell Bros. (Manchester, 1927), Ltd., Calder Iron Works, Ashton Road, Denton, Manchester, £9,025; pump units for Walcot booster station—Berry Hill (Engineers), Ltd., Cheadle, Staffs. £1,977; pipes and specials for the water main from County Road to Okus reservoir—South Durham Steel and Iron Co., Ltd., 26 Collingwood Street, Newcastle upon Tyne, £5,170 (recommended).

Street, Newconded).

Upton-upon-Severn, Worcs. — Construction of a small mass concrete dam and attendant works at The Mill Pond, Castlemorton Common, Castlemorton, for R.D.C.—Worcester Plant Hire and Con-

tractors, 6 Bank Street, Worcester.

West Dorset. — Following for Water Board.

R. Chapman, engineer and surveyors:

(Contract 10) Water main, Hooke to Stoke Knapp, including the laying of about 7,800yd. of 10in., 6,100yd. of 8in. and 1,200yd. of 6in. water mains using spun-iron pipes, and the laying of about 3,700yd. of low-voltage cable in the pipe trench; and (9) water main, reservoir 7 to Dottery, including the laying of about 7,300yd. of 6in. water main using spun-iron pipes—William Press and Son. Ltd., Abbey Grounds, Abingdon, Berks., £20,200 and £13,140, respectively (subject to Ministry approval).

Worcester. — Supply of following for laying

worcester.—Supply of following for laying at Warndon estate for City Council: 8i diameter pipes with Tyton joints-staveley Iron and Chemical Co., Lt. Chesterfield, Derbys., £1,102; 8in. diameter

pipes with bolted gland joints, and 6in. diameter pipes with bolted gland and Tyton joints, and all special castings—Stanton Ironworks, Co., Ltd., near Nottingham, £2,224 (recommended).

#### HEATING AND VENTILATING

heatilery, Mon.—Provision of low pressure hot water installation served by a gasfired boiler at the Metropole Theatre for U.D.C. Reginald M. Eke, engineer and surveyor—Heating (Newport), Ltd., 8a Cross Lane, Newport, Mon. Work about to compage the compage of th

Cross Lane. Newport, Mon. Work about to commence.

Rochdale, Lanes. — Replacement of heating boiler at Parish Church School for B.C.—Henry Tattersall, Ltd., 272 Spotland Bridge, Rochdale, £1,326 (recommended).

Sunbury-on-Thames, Middx. — Installation of back boilers and ancillary equipment, etc., in about 32 houses at Laytons Lane and Nursery Road for U.D.C.—C. T. Tipler, 15 Bedfont Lane, Feltham, £3,288. Work commencing this month.

Swindon, Wilts.—Supply of boiler plant for swimming baths for B.C.—G. Applegate and Sons, Ltd., Manvers Street, Bath, £10,740 (recommended).

West Bromwich, Staffs.—Remodification of the main garage heating system at Oak Lane Garage for B.C.—C. W. Ingham and Son, Ltd., 68 High Street, Birmingham, 17, £3,446 (recommended).

## HARBOURS, PIERS AND SEA DEFENCE

ove, Sussex.—Construction of approximately 1,100 lin. ft. of mass concrete sea wall with flint facing and steel piling too protection, together with promenade filling and surface works for B.C.—Reed and Mallik, Ltd., Milford Manor, Salisbury, Wilts., £112,034.

#### HOUSING SCHEMES

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Aireborough, Yorks.—One hundred and one houses for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Bath, Som. — Ninety-four flats and maisonnettes, communal laundry and garages at Snow Hill for City Council—A. Wills and Sons, Ltd., 15 Argyle Street, Bath, £227,417. Snailum and Le Fevre, architects, 18 Brock Street, Bath; W. E. Underwood and Son, quantity surveyors, 21 Gay Street, Bath, and Oscar Faber and Partners, consulting engineers, Torrington House, Holmwell Hill, St. Albans, Herts. Site preparation and piling have commenced.

Bedworth, War. — Fifty-three flats, 22 houses and 21 bungalows for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Housing, Ltd., 21 Farncombe Road, Worthing.

Birmingham. — Following for City Council.

A. G. Sheppard-Fidler, city architect: Forty-five dwellings and 53 garages, Brandwood and Kings Norton areas, contract 730 (o-r).

—W. A. Hornsby (Builders), Ltd., Kyrle Hall Building, Sheep Street. Birmingham, 4. £79,041; 36 dwellings and 22 garages, Ward End House, Washwood Heath, contract 746.

—C. Bryant and Son, Ltd., 65 Whitmore Road, Small Heath, Birmingham, 10, £101,410. £101,410.

C. Bryant and Son, Ltd., 65 Whitmore Road. Small Heath, Birmingham, 10, 2101,410.

Bournemouth, Hants.—Forty flats and 21 garages in two blocks, with ancillary works at 29 and 29a Surrey Road, for Patcham Developments, Ltd. Gotch and Partners, architects, 8 City Road, Finsbury Square, London, E.C.I.—James Drewitt and Son, Ltd., Ringwood Road, West Howe, Bournemouth, £120,237 (negotiated contract).

Block uf 16 flats with garages under at 3 % Winifred's Road, for St. Winifred's Property Co. Ltd. K. Valdmanis, architectural consuitant, 53 Goldhurst Terrace, London, N.W.6—James Drewitt and Son, Ltd., Bournemouth, £45,291.

Camberwell.—Following for B.C.: Forty-two dwellings, with external works and ancillary buildings, at development area 19, Gibbon Road—Griggs and Son, Ltd., 56 Victoria Street, London, S.W.I. £138,926; 98 dwellings on Lordship Lane site—Direct Labour, £351,596; 117 dwellings and six shops at development area 18, Mansion Street—Wilson, Lovatt and Sons, Ltd., 16 Grosvenor Crescent, London, S.W.I. £455,830 (all recommended, subject to Ministry approval).

Cardiff. — Twenty-five flats for aged persons, with flat for caretaker and amenity accommodation in one block, at Hollybush estate, Whitchurch, for R.D.C. S. P. Youldon. engineer and surveyor—F. Revnolds (Cardiff), Ltd., rear of 1 Gower Street, Cathavs, Cardiff.

Clare, Suffolk. — Twelve bungalows and the construction of sewerage and sewage disposal works at the Nunnery Green site, Wickhambrook, for R.D.C. H. A. Smith, engineer and surveyor—Slater Bros. (Glems-

lord), Ltd., Glemsford, Sudbury, Suffolk, \$21,052. Work about to commence.

Dewsbury, Yorks.—Five three-storey blocks of two-bedroom flats on the Thornhill Lees redevelopment scheme 1, and five three-storey blocks of two-bedroom flats on the Westtown redevelopment scheme 2, for B.C.—Fell Construction Co., Ltd., Wakeneld, £87,949 (recommended, subject to Ministry approval).

Doncaster, Yorks.—Thirty-eight houses at Rands Lane, Armthorpe (contract 366), for R.D.C. J. A. Williams, surveyor—R. Dunkerley and Sons, Ltd., 9 Highfield Road, Doncaster, £49,609.

Friern Barnet, Middx.—Forty-two flats and eight houses for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex, Gosforth, Northumb.—One block of 10 flats at Craster Square for U.D.C.—Adam R. Robertson (Builders), Ltd., East Park View, Blyth.

Robertson (Builders), Ltd., East Park View, Blyth.

Lambeth.—Construction in the Tindall Street area of 25 balcony-access flats in one five-storey block, 20 maisonnettes in one four-storey block, 20 maisonnettes in one four-storey block, and four two-storey terrace houses, together with 23 tenants' stores, six garages, 10 parking spaces and a play space, for L.C.C.—Thomas and Edge, Ltd., 52 Macbean Street, London, S.E.18, £153,450 (accepted); Thomas and Edge, Ltd., £153,450; G. Ward (Ealing), Ltd., £154,110; Thomas McInerney and Sons, Ltd., £154,110; Thomas McInerney and Sons, Ltd., £155,200; Rowley Bros., Ltd., £156,848; Griggs and Son, Ltd., £157,420; M. J. Gleeson (Contractors), Ltd., £161,781; Speirs, Ltd., £162,741.

Lambeth.—Eighteen flats, six garages, etc., at site 93, New Park Road, for B.C.—F. J. Moreton and Son, Ltd., 171 Gipsy Road, London, S.E.27, £45,500 (recommended, subject to Ministry approval); Direct Labour, £45,996; A. T. Rowley (London), Ltd., £46,247; H. F. S. Ward, Ltd., £47,210; H. T. Oliver, Ltd., £46,567; Bridge Walker, Ltd., £48,003; W. H. White (Crofton Park), Ltd., £52,200; Thomas and Edge, Ltd., £57,384.

Ormskirk, Lanes. — Thirty-four additional houses on the Oueen Street estate for U.D.C.

Ormskirk, Lancs. — Thirty-four additional houses on the Queen Street estate for U.D.C. — J. and R. Woods (Builders), Ltd., 15 Knowsley Road, Ormskirk, £46,349.

Knowsley Road, Ormskirk, £46,349.
Osgoldcross, Yorks. — Thirty-five flats. 34 houses, for R.D.C. — Gregory Housing, Ltd., 21 Farncombe Road, Worthing.
Penistone, Yorks. — Eight houses and four bungalows for U.D.C. — Gregory Housing, Ltd., 21 Farncombe Road, Worthing.
Pershore, Worcs. — Four dwellings at Wick and also two dwellings at Fladbury for R.D.C. Pemberton and Bateman, archi-

tects, 21 Vine Street, Evesham—F. J. Sears, Kempsey, near Worcester, £8,039 and

kempsey, near Worcester, £8,039 and £3,253, respectively.

Shrewshury, Salop.—Further 80 semi-detached houses (for sale) at Harlescott Grange estate, for B.C.—Selleck Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Corn., £144,015 (recommended).

Austell, Corn. £144,015 (recommended).

Surbiton, Surrey.—Twelve aged persons' dwellings at 14 South Place for B.C.—Pinsent Bros., Ltd., Beaconsfield Road, Tolworth, Surbiton, £22,229 (recommended, subject to Ministry approval).

Tamworth, Staffs.—One hundred and seventy-five flats, 104 houses and eight bungalows for B.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.

Forty houses and 12 bungalows for R.D.C.—Gregory Housing, Ltd.

Taunton, Som.—Provision of a warden's house and meeting room at Lane estate extension for B.C.—I. H. Shorney, Greenaleigh, Hill-farrance, Bradford-on-Tone, Taunton, £8,071 (recommended).

farrance. Bradford-on-Tone, Taunton, £8,071 (recommended).

Totnes, Devon.—Four old people's bungalows at Staverton for R.D.C.—Blight and Scoble, Ltd., 24 Chapel Street, Buckfastleigh, £6,195.

West Bromwich, Staffs.—Seventy-two flats and 62 garages at Charlemont Farm estate for B.C.—Direct Labour, £118,114 (recommended).

whitehaven, Cumb.—Eight flats at Peter Street for B.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex, £11,324 (subject to Ministry approval).

Worksop, Notts.—Fourteen houses (for sale) at Kilton estate for B.C.—J. H. and W. E. llett, Ltd., Dock Road, Worksop, £19,054 (extension of contract).

Wortley, Yorks. — Eight blocks of two two-bedroom flats at Burncross, Chapeltown, near Sheffield, for R.D.C. Arthur Wikeley, engineer and surveyor — Bertram and Illingworth, Niagara Works, Wadsley Bridge, Sheffield, 6.

#### MATERIALS AND SUPPLIES

Surbiton, Surrey.—Supply of following for one year commencing July 1, 1961, for B.C.: Cold asphalt and tarred slag.—Tarmac Roadstone, Ltd., 50 Park Street, London, W.1. £2,750 and £1,533, respectively: granite concrete paving.—Amalgamated Roadstone Corporation, Ltd., 15 Stanhope Gate, London, W.1, £1,127 (recommended).

#### PLANT AND MECHANICAL TRANSPORT

Aylesbury, Bucks.—Supply of a new York-shire combined cesspool and gully emptier vehicle for B.C.—Cogger and Hawkins, Ltd. Walton Street, Aylesbury, £2,750 (recommended).

Bacup, Lancs.—Supply of one Bedford 5-ton tipper, for B.C. M. Hyslop, borough engineer—Burnley Motor Mart, Ltd., Cannon Street, Burnley, £1,320 (accepted); Holden Bexley, Kent.—Supply of one Massey-Ferguson industrial tractor with a parkover attachment, tipping trailer and five gang movers, and one Bristol PD44 duplex machine, fitted bucket, set of side and from panels and electric windscreen wiper for cab for Bouchet, set of side and from panels and electric windscreen wiper for cab for Bouchet, set of side and from panels and electric windscreen wiper for cab for Bouchet, set of side and from panels and electric windscreen wiper for cab for Bouchet, set of side and from panels and electric windscreen wiper for cab for Bacteria with the set of the

Crosshall Street, Liverpool, 3, £1,698 (recommended).

Litherland, Lancs.—Supply of following for U.D.C.: Morris 5-ton standard tipper (diesel) and Greens Griffin-type D.R.X. 2½-3-ton diesel roller—Aintree Garage and Trading Co., Ltd., 136 Altway, Aintree, Liverpopol, 10, £1,274 and £1,388, respectively.

Liverpopol, 10, £1,274 and £1,388, respectively.

Loughborough, Leics,—Supply of a refuse wagon for B.C.—R. Cripps and Co., Ltd.

Nottingham, £1,286, less an allowance of £85 for an old vehicle (recommended).

Margate, Kent.—Supply of one for-and-aft freighter, capable of bulk loading 11 cu. yd. containers from multi-storey flats, for BC.

Shelvoke and Drewry, Ltd., Letchworth. Herts., £3,503 (recommended).

Norwich.—Supply of two Atkinson gritting bodies for City Council—Atkinson's Agricultural Appliances, Ltd., Enterprise Works, Kendal Street, Clitheroe, Lancs. (recommended). Estimated cost £1,220.

Sarbiton, Surrey.—Supply of one Heron

arbiton, Surrey.—Supply of one Heron Gibson refuse collection vehicle and one Karrier Bantam tipping lorry with diesel engine and gritter attachment for B.C.—Dennis Bros., Ltd., Guildford, £2,499, and H. Taylor and Co., 135 London Road, Kingston-upon-Thammes, £960 (including £23 allowance for old vehicle), respectively (recommended). Sarbiton, allowance for (recommended).



for hire

CASE 2 CU. YD. CRAWLER SHOVELS

TERRAMATIC TRANSMISSION

Minimum Cycle Time Maximum Output

PLANT HIRE

OXFORD 7824 WOKINGHAM 2175 windon, Wilts.—Supply of the following for B.C.: 4-ton Bedford tipping lorry and a Bedford TK forward control 7-ton tipper, including extra fittings—Skurray's, Ltd., 30-32 High Street, Swindon, £1.179 and £1.477, respectively; one MasseyFerguson diesel tractor, complete with ancillaries—Tractors and Farmaids, Ltd., Stratton Road Works, Swindon, £677 (recom-

Road Works, Swindon, £677 (recommended).

West Bromwich, Staffs.—Supply of a 6/7-ton trailer, having a 5ft. 10in. platform between wheel arches, complete with lights, skids and trailer plates, for B.C.—Modern Sales, Ltd., Wolverhampton New Road, Uldbury, £505 (recommended).

Worthing, Sussex.—Supply of following for B.C.: Three Rider-type electric refuse collection vehicles—Stanley Engineering Co., Ltd., 17 The Avenue, Egham, Surrey, £2,773 (recommended).

Four Ford Sewt. Thames vans—H. D. Steel and Son, Ltd., 18 Railway Approach, Worthing, £1,398

### PLAYING FIELDS, PARKS, ETC.

pudley, Wores,—Construction of the Redgra games area at Bishop Milner School for B.C.—Midland Gardens, Ltd., 68 Bath Road, Wolverhampton, £2,722 (recomded).

mended).

Rochdale, Lancs.—Construction of playing Rochdale, Lancs.—Construction of playing helds at Sacred Heart R.C. School for B.C.
—Maxwell M. Hart (Glasgow), Ltd., 74
Corporation Street, Manchester, 4, £1,320 Corporation Str

recommended).

Wandsworth.—Landscaping works at Allfarthing Lane site for B.C.—Knowles and Weller.
Ltd., Tennison Road, London, S.E.25, £1.017.

recommended); Grassphalte, Ltd., £1,249;
Kimman (Contractors), Ltd., £1,256.

Wellington, Som.—Provision of two hard tennis courts for U.D.C.—En-Tout-Cas Co., itd., Syston, Leicester, £1,412.

#### RAILWAY ENGINEERING

British Railways .- Following contracts placed:

Construction of freight concentration depot at Burnley Central Station—Norwest Construction Co., Ltd., Netherton, Liverpool, 10.

Platform surfacing at Preston Station-Harbour and General Works, Ltd., More cambe, Lancs.

Reconstruction of bridge 2 on the Trent Valley Line for electrification headroom and widening—Wilson Lovatt and Sons, Ltd., Wolverhampton.

Cleaning and painting at electric carriage shed and C.M.E. workshops, Stonebridge Park—William Latimer and Co., Ltd., London S.W.

Park—William don, S.W.8. Reconstruction of Stafford Station G. Percy Trentham, Ltd., Longton, Stok

Reconstruction of Stafford Station—G. Percy Trentham, Ltd., Longton, Stoke-on-Trent.
Renewal of room coverings at Fleetwood Passenger Station—The Cellacitite Co., Ltd., Gravesend, Kent.
Renewal of roof coverings at District Engineer's Joiners' Shop, Liverpool Edge Hill—Industrial Engineering Ltd., Hanover Square, London, W.1.

#### ROADS, BRIDGES AND SITE WORKS

ROADS. BRIDGES AND SITE WORKS

Sasingstoke, Hants.—Construction of roads and sewers at South Ham housing site for B.C.—A. J. Dunning and Sons (Weyhill). Ltd., Weyhill, Hants, £37.170 (recommended).

Beddington and Wallington, Surrey.—Roadworks at Great Woodcote Park and resurfacing of London Road, Hackbridge, and Croydon Road for B.C.—Henry Hemmings. Ltd., 129 Brigstock Road, Thornton Heath, £18,834, and Associated Asphalt Co., Ltd., 10 Shrubbery Road, London, S.W.16, £1,500, respectively (recommended).

Beverley, Yorks.—Construction of approximately 840 lin, yd. of 6in, and 9in, sewers at Shopeth Way, Woodmansey (contract 444 for R.D.C. G. Palfreyman, engineer and surveyor, 22 Lairgate — W. E. Freeman. Ltd., 193 Albert Avenue, Hull.

Blaby, Leics.—Construction of roads and sewers (contract 33) Wistow Road, Kilby, and (34) College Road, Whetstone, for for R.D.C. G. Palfreyman, engineer and veyor—Clayton Bros., Ltd., Hathern, near Loughborough, £3,916, and Joseph Webster, £7,057, respectively.

Boreham Wood, Herts.—Making-up Elmwood Avenue and Dakwood Avenue for C.C.—L. W. Bryant and Co., 12 Park View Gardens, Grays, Essex.

Brentwood, Essex,—Burning-off and planing of existing carriageway surfacings, and the supply, delivery and laying by Barber-

of existing carriageway surfacings, and the supply, delivery and laying by Barber-Greene machine of hot rolled asphalt, pre-

coated chippings, tarmacadam and bituminous concrete foundation courses, bituminous macadam and fine cold asphalt wearing courses and gravel macadam foundation and wearing courses for U.D.C.—Neuchatel Asphalte (Contracting), Ltd., Neuchatel House, Palace Street, London, S.W.l; Wirkworth Quarries, Ltd., 286 Pentonville Road, London, W.l, and W. and J. Glossop, Ltd., 123 East Hill, Wandsworth, S.W.18.

Camelford, Corn.—Demolition of buildings. site levelling and the laying of approximately 1,000yd, of bituminous roadway at Boscastle car park for R.D.C.—R. R. Haylett, engineer and surveyor—S. Jewell, Ltd., Wadebridge, £1,262 (accepted); C. H. Force, £1,896.

Carlisle, Cumbs.—Surfacing of estate roads at Morton for City Council I. LA. Store

Ltd., Wadebridge, £1,262 (accepted); C. H. Force, £1,896.

Carlisle, Cumbs. — Surfacing of estate roads at Morton for City Council. L. J. A. Stow, city engineer — Border Engineering Contractors, Ltd., Queen Street, Whitehaven,

cheadle and Gatley, Ches.—Surface dressing of approximately 87.000 super, yd. of highways for U.D.C. Duncan S. Graham, engineer and surveyor—Norman E. Box and Co., Ltd., Broadneath, Altrincham.

Chelsea.—Supply and laying of bituminous materials for highways resurfacing for B.C.—The Mowlem Paving Co., Ltd., 19 Grosvenor Place, London, S.W.I., £21,116 (recommended): The Limmer and Trimidad Lake Asphalt Co., Ltd., £22,152; Neuchatel Asphalte (Contracting), Ltd., £22,2888; Val de Travers Asphalte, Ltd., £23,227; H. V. Smith and Co., Ltd., £23,353; Highways Construction, Ltd., £23,658.

Cheltenham, Glos.—Surfacing car park at Bath Road Bath Parade for B.C.—Britannia Plant, Ltd., Haywicks Wharf, Tewkesbury Road. Cheltenham, £2.660 (recommended).

Chesterfield, Derbys.—Construction of roads and sewers in connection with the layout for the new housing estate at Loundsley Green for B.C. A. S. Crockett, borough engineer and surveyor—Robert McGregor and Sons, Ltd., 7 Brazennose Street, Manchester, 2, £339,976 (provisionally accepted).

Chippenham, Wilts.—Construction of foo-

accepted).

accepted).
Chippenham, Wilts.—Construction of foopaths for the first stage of the development of Monkton Park for B.C.—Hadsphaltic Construction Co., Ltd., St. Marys
Place, Chippenham. £3,938 (recommended.
subject to Ministry approval).



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Dudley, Worcs.—Following for B.C.: Renewal of worn footpaths at Simms Lane and St. Andrew's Street—Kiely Bros., Birmingham, £1,135.

ingham, £1,135.
Improvement to St. Peter's Road — Mee Mulrey and Co., Ltd., 365 Olton Boulevard East, Birmingham, 27, £21,876; aerial surveys. Fairey Air Surveys, £2,176 (recommended, subject to M.T. approval).

Durham.—Following for City Council: Extensions to South Road Cemetery (including roadworks) — Tarmac Roadstone, Ltd.. South Bank-on-Tees, £7,246.
Roadworks on the Newton Hall estate—Northern Roadworks, Ltd., Darlington, £4,260.

E4,760.

Enniskillen, Fermanagh.—Reconstruction of Henry Street and Sligo Road for B.C.—Farrans, Ltd., Dunmurry, Belfast.

Haslingden, Lancs.—Heating and planing part of Roundhill Road and part of Helmshore Road and surface dressing of various lengths of classified roads for B.C.—W. and J. Glossop, Ltd., Amisfield House, Hipperholme, Halifax (recommended).

Hastings.—Sussex—Following for B.C.:

Hastings, Sussex.—Following for B.C.: Construction of footway at Parkston Road G. S. Dicker (Engineers), Ltd. 137 Hughenden Road, Hastings, £2,342 (recom-

mended).

Removal of the earth bank backing on to Eversfield Place in connection with the construction of a car park at St. Margaret's Road—R. A. Benge, Ltd., 21,367 (recommended, subject to Min'stry approval).

approval).

Hereford.—Construction of roads and sewers at Prospect Farm for City Council—Hereford Resurfacing Co., Janbeth, Hazel Grove, Hereford, £42,680 (recommended, subject to Ministry approval).

Heywood, Lancs.—Private street works in Heywood Hall Road and site, and Park Terrace for B.C.—T. J. Murphy, 113 Radcliffe New Road, Whitefield (recommended).

Hove, Sussey—Construction

Hove, Sussex.—Construction of approximately 250 lin. ft. of builders' road off Chichester Close for B.C.—J. Mikolay and Son. Ltd.. Station Approach, Newhaven, £10.613.

Station Approach, Newnaven, 210,615.

Ipswich, Suffolk. — Site works, etc., for the erection of 64 garages at Byron Road/Chaucer Road and Dickens Road for B.C.—J. F. King and Son, Ibswich, £9,938 (subject to Ministry approval).

Kendal, Westmor.—Construction of roads and sewers to serve 174 houses at Sandylands estate extension for B.C.—W. H. Ainsworth and Co., Ltd., Sandgate, Kendal, £30,826 (recommended, subject to Ministry ap-

proval).

eamington Spa, War.—Resurfacing of the following for B.C.: Northumberland Road and Tachbrook Road (part)—Tarmac Road-stone. Ltd. Oldbury, £5,782 and £6,944. respectively: Warwick New Road (part)—Non-Impact Surfacing, Ltd., Johnston House, Hatchlands Road, Redhill, Surres. £1,844, respectively (recommended).

Linwood, Renfrews.—Site preparation works of about 120 acres for the £22m. car plant at Linwood Road for Rootes Group. Coventry—R. M. Douglas (Contractors)., Ltd., Birmingham, 23.

Northern Ireland.—Second extension of Coolkeeragh power station contract

orthern Ireland.—Second extension of Coolkeeragh power station, contract N.1, 1603, main civil works for Electricity Board—Tileman and Co., Ltd., Romney House, Tufton Street, London, S.W.I. Estimated cost £100,000. Kennedy and Donkin, 64 Royal Exchange, Manchester, 2, and Sir Alexander Gibb and Partners, Queen Anne's Lodge, Westminster, London, S.W.1, are the consulting engineers.

Partners, Queen Anne's Lodge, West-minster, London, S.W.l, are the consult-ing engineers.

Norwich.—Construction of car parks at Cole-gate and Chapel Field Gardens for City Council — Direct Labour (recommended). Estimated cost £3,618 and £3,000, respectively

tively.

Offaly, Eire,—Site development on a site of approximately 50 acres for a new power station at Shannonbridge for Electricity Supply Board—M. J. Davis and Co., Ltd. 6 Waterloo Road, Dublin.

6 Waterloo Road, Dublin.

Ormskirk, Lancs.—Road and sewer works on the Queen Street estate for U.D.C.—Charles L. Warren, Ltd., 78 St. Paul's Road, Wallasey, £3,387.

Peterlee, Dur.—Neville Road, extension from Howletch Lane to Burnhope Way, contract 131, for Development Corporation, R. G. S. Roberts, chief engineer—Tarmac Civil Engineering, Ltd., Bowesfield Lane, Stockton-on-Tees (recommended).

Plymouth, Devon.—Making-up of Powisland Drive, provision of a pedestrian bridge across Notte Street, widening of Exeter Street from St. John's Street to Embankment Road and Tothill Road, incorporating the provision of a roundabout, and the ex-

tension of western approach from Cambridge Street to Cobourg Street for City Council—Direct Labour, £10427, £15,064, £239,790 and £119,601, respectively freemmended, subject to Ministry approval).

Ramsgate, Kent.—Following for B.C.: Surface dressing of certain district roads during 1961-62 — South Eastern Tar Distillers. Ltd., Broadoak Road, Canterbury, 354, per super. yd. for spraying and dressing and 0.45d. per super. yd. for roller and driver (recommended).

Resurfacing of Haine Road and St. Lukes Avenue (part)—Chittenden and Simmons, Ltd., Ditton Place, Larkfield, Maidstone.

Resurfacing of Haine Road and St. Lukes Avenue Simmons, Ltd., Darth—Chittenden and Maidstone.

Shipley, Yorks.—Reconstruction of 21 streets at Saltaire and Keighley Road. The work includes 13,000 sq. yd. carriageway and 6,000 sq. yd. footpaths for U.D.C.—A. E. Chambers, Bingley, El7,083.

Smethwick, Staffs.—Construction of roads and sewers at industrial site (tram sheds). Oldbury Road for B.C.—Olton Plant Co. Ltd.. 44 South Road, Birmingham, 31, £3,566 (recommended).

South Ella, Yorks.—Construction of road and sewer works between Tranby Lane and Mill Lane, South Ella. Fisher, Hollingworth and Partners, architects, 23 Lowgate, Hull—F. Hall and Sons, Ltd., 61 Alexandra Road, Hull. £27,477 (accepted): Sangwin, Ltd., £28,799; G. M. Allenby, £29,79; W. F. Freeman, Ltd., £30,014; T. R. Barnett, Ltd., £31,831; Stepney Consumport, Lancs.—Heating and planing of carriageways, at a cost of 10d, per sq. yd. for up to two cuts, and 34d, per sq. yd. for up to two cuts, and 34d, per sq. yd. for up to two cuts, and 34d, per sq. yd. for up to two cuts, and 34d, per sq. yd. for additional cuts, for a total area of approximately 50,000 sq. yd. for B.C.—Non-Impact Surfaces, Ltd., Johnston House, Hatchlands Road, Redhill. Surrey (recommended). Total estimated cost £2,083.

Spenborough, Yorks.—Making-up of Brook-fields Avenue, Scholes, and Hill Street, Cleckheaton, for B.C.—Wilsons (West Riding), Ltd., 526 Leeds Road, Thackley, £2,583, and S. Sutcliffe, Ltd., Mytholmost, Hill Street, Cleckheaton, for B.C.—Wilsons (West Riding), Ltd., 526 Leeds Road, Thackley, £2,583, and S. Sutcliffe, Ltd., Mytholmost, Hill Street, Cleckheaton, for B.C.—Wilsons (West Riding), Ltd., 526 Leeds Road, Thackley, £2,583, and S. Sutcliffe, Ltd., Mytholmost, Hill Street, Cleckheaton, for B.C.—J. Duncan and Co., Ltd., Bradford Road, Tingley, near Wakefield.

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Suffordshire.—Construction of dual carriage-ways on a section of the Winchester-Preston trunk road, A.34 (Stafford-Stoke), from M.P. "Stone 2½" to Strongford Bridge for C.C. The contract involves various accommodation works, fencing, walling, earthmoving, diversions of the River Trent, drainage, kerbing, carriage-ground in cement-bound graular base 10in, thick, surfacing mainly in hot rolled asphalt, and the construction of three reinforced concrete bridges, two of three spans totalling respectively 105ft, and 90ft. and one single-span of 20ft. F. Jepson, county surveyor—Percy Bilton, Ltd., Stone, Staffs. Work about to commence.

Bilton, Ltd., Stone, Staffs. Work about to commence.

Surbios, Surrey.—Following for B.C.: Reinstatement of (a) trenches with hot asphalt and (b) carriageways and footways—(a) Highways Construction, Ltd., Pear Tree Wharf, London, S.E.10, and (b) W. H. Gaze and Sons, Ltd., 19-23 High Street. Kingston-upon-Thames; reinstatement of trenches at Hook Road, etc.—J. Murphy and Sons, Ltd., 43 Charteris Road, London, N.4 (recommended).

Swaley, Kent.—Construction of extensions to car park at the Lullingstone Castle public-house for Courage and Barclav. Ltd., Hodsons, Ltd., 17 Wrotham Road, Gravesend (extension of contract).

Swindon, Wilts.—Construction of roads and sewers on land east of the Borough and Fleming Way from Newcastle Street to Drove Road for B.C.—Direct Labour (recommended).

Drove Road for B.C.—Direct Labour (recommended).

Tenterden, Kent.—Construction of car park at the rear of the Embassy Cinema for B.C.

R. J. Nichols, borough surveyor.—Roe Road Contractors, Horsmonden, £4.045.

Tunbridge Wells, Kent.—Supply of Kentish ragstone high viscosity tarmacadam for repairs to Clifton Road for B.C.—British Quarrying Co., Ltd., Quarry Hill, Borough Green, Sevenoaks, 53s. 4d. per ton for ½in. and 54s. 4d. per ton for 1½in. (recommended).

(recommended).

Warrington, Lanes. — Construction of a reinforced concrete twin box culvert bridge at Hawley's Lane, of approximately 35ft, span for B.C. J. Y. Hughes, borough engineer—F. Berry and Sons, Ltd., Wilderspool Causeway, Warrington. Work expected to commence within two months.

West Bromwich, Staffs.—Reconstruction of part of Lakeside Road for B.C.—Tarfelt Surfacing Co., 58 Hollyhedge Road, West Bromwich, £2,178 (recommended).

Wercester.—Construction of roads and sewers on the second stage of the northern development of the Warndon estate for City Council — Worcester Plant Hire and Contractors, Ltd., 6 Bank Street, Worcester, £83,835 (recommended, subject to Ministry approval).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bingham, Notts. — Radcliffe-on-Trent sewerage and sewage disposal scheme for R.D.C., including the construction of about 2,200 lin, yd. of glazed stoneware pipe sewers of diameters ranging from 18in. to 9in., with manholes, about 1,850 lin. yd. of 15in. diameter spun-iron rising mains with hatchboxes, a main sewage pumping station and sewage disposal works comprising balancing tanks, sedimentation tanks, bacteria beds, humus tanks, sludge drying beds, two sludge pumphouses, together with incidental works. A. H. S. Waters and Partners, consulting engineers, 25 Temple Row, Birmingham, 2—Adam Eastwood and Sons, Ltd., Mansfield, Notts., £188,524 (provisionally accepted, subject to Ministry approval).

Cheltenham, Glos. — Re-laying of Rowanfield sewer at R.C. School site for B.C.—Hadsphaltic Construction Co., Ltd., 83 Pestbury Road, Cheltenham, £9,849 (recommended).

mended).

mended).

Cookham, Berks.—Extension of surface water sewer from Stompits Road housing estate and Rivoy Brook to New Road for R.D.C.—Ruddock and Meighan, Ltd., Wealdstone, Middx. (extension of contract).

Cranbrook, Kent.—Improvements to Goudhurst sewage works for R.D.C.—Hugh Brown (Engineers), Ltd., Chart Road, Ashford, £20,946.

ford, £20,946.

Dewsbury, Yorks. — Works necessary at the Mitchell Laithes sewage disposal works for the reception of sewage from Ossett for B.C.—R. H. Fullwood, Ltd., South Elmsall.

B.C.—R. H. Fullwood, Ltd., South Elmsain. £11,570 (recommended).

Driffield, Yorks.—Sewage disposal scheme at Beeford for the R.D.C.—Talson Construction, Ltd., Sherburn, Malton, £60,860 (subject to Ministry appproval).

Dudley, Worcs.—Construction of surface water sewer at Horseley House site for B.C.—Mee Mulrey, Ltd., Olton Boulevard East, Olton, Birmingham, 27, £1,350 (recommended).

(recommended).

Ellesmere Port, Ches. — Piping of ditches at Whitby Park for B.C. Cecil W. Davies, engineer and surveyor—W. E. Parsons and Co., Ltd., Victoria Road, Ellesmere Port, £7,235 (accepted); J. W. Flather, Ltd., £7,664; J. R. Flood, £8,254; Sir R. Lloyd and Co., Ltd., £8,316. Work to commence line.

£7,664; J. R. Flood, £8,254; Sir R. Lloyd and Co., Ltd., £8,316. Work to commence June.

Eton, Bucks. — Construction of link way surface water sewer for R.D.C., comprising the supply and laying of 131 lin. yd. of 15in., 90 lin. yd. of 27in., and 253 lin. yd. of 30in. concrete sewer, together with manholes, overflow chamber and headwall—J. Bray, 36 River Park Gardens, Ravensbourne Avenue, Bromley, Kent, £9,216. Work about to commence.

Fleetwood, Lancs. — Reconstruction of sewer outfall for B.C. John H. Haiste and Partners, consulting engineers, 4 Queens Square, Leeds, 2—Dridig Engineering Co., Ltd., 314 Moorside Road, Swinton, Lancs., £21,949 (recommended, subject to Ministry approval)

approval).

Hampstead, — Construction of new manholes during 1961-62 for B.C.—O. C. Summers, Ltd., 109-113 York Way, London, N.7, £9,000 (recommended, extension of existing contract).

£9,000 (recommended, extension of existing contract).

Portsmouth, Hants. — Provision of drainage for controlled tipping on land opposite City Airport, Eastern Road, for City Council—Direct Labour (recommended). Estimated cost £2,500.

Stratford-upon-Avon, War.—Construction of the main pumping station and rising main for a sewerage and sewage disposal scheme for B.C.—M. J. Gleeson (Contractors), Ltd., North Cheam, Surrey, £127,670 (recommended, subject to Ministry approval).

for B.C.—M. I. Gleeson (Contractors). Ltd., North (recommended, subject to Ministry approval).

Tendring, Essex.—Construction of the western area sewerage scheme for R.D.C. W. S. Laing, engineer and surveyor—T. C. Stewart (Contractors), Ltd., Bury St. Edmunds, £386,873. Work about to commence.

Torington, Devon.—Yarnscombe: sewerage and sewage disposal scheme for R.D.C., comprising layout of about 570 lin. yd. of 6in. diameter sewers, together with concrete manholes, the construction of a small sewage works, and all ancillary works. Harvey, McGill and Hayes, consulting engineers, 8 Richmond Road, Exeter—James Dennis and Son, Ltd., Knowle, Braunton, Devon, £10,123 (accepted); A. A. Beer, Ltd., £13,730; Richard Costain (Construction), Ltd., £16,057. Work commencing June.

Worksop, Notts.—Harworth sewerage scheme (contract 1) for R.D.C., comprising the construction of a sewage treatment works, consisting of detritus channels, settlement tanks, dosing tanks, filter beds, humus tanks, sludge drying beds, sludge digestion tanks, sludge drying beds, sludge digestion tanks, sludge pumping station and site works, together with a sewage pumping station and rising main, and approximately 690 lin. yd. of 12in. and 18in. diameter sewer, at Harworth. John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6—Moss and Cummins (C.E.), Ltd., Shireland, Derbys., £63,645 (provisionally accepted, subject to Ministry approval). Worthing, Sussex.—Following for B.C.: East Worthing sewage works—supply and erection of dual fuel engines and electric generators with Reyrolle switchgear—vision of sludge digestion tanks and ancillary equipment—Dorr-Oliver Co., Ltd.,



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Watton Road, London, S.W.1, £43,045 (recommended subject to Ministry ap-

(recommended subject to ministry approval).

Construction of a surface water sever and soil sewer at High Salvington—
K. Mikolay and Son, Ltd., Seaford, £3.781
(recommended, subject to Ministry approach proval)).

#### STREET LIGHTING

STREET LIGHTING

Bexley, Kent. — Supply of concrete columns for the completion of the comprehensive modernisation scheme for street lighting in the borough for B.C.—Stanton Iron Works Co., Ltd., near Nottingham (recommended).

Fylde, Lancs. — Class A and class B street lighting — Newton, Warton, Greenhalghwith-Thistleton, Treales, Roseacre and Wharles, Singleton, Little Eccleston-with-Larbreck, Elswick and Staining for R.D.C. — A.E.I. Lamp and Lighting Co., Ltd., Trafford Park Road, Manchesttr, 17, £3.549.

Hastings, Sussex.—Supply of 64 Sapphire lanterns to replace pre-war street lighting at Bexhill Road for B.C.—A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, £1,001 (recommended).

Margate, Kent. — Supply of Two - Thirty fluorescent Margate lanterns with switchless start gear, and group B Margate concrete columns for stage II of the street lighting improvement scheme for B.C.—General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, £16 14s, 6d, each and £8 5s, 6d, each, respectively (recommended).

Morley, Yorks.—Work in connection with Howdenclough Road scheme for B.C.—Concrete Utilities, Ltd., 11 Albert Square, Manchester (recommended).

Tunbridge Wells, Kent.—Supply and fitting of 71 lanterns to replace obsolete lanterns in Major Yorks Road, Monson Road and Frant Road for B.C.—South Eastern Electricity Board, £734 (recommended).

#### GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £4,000 in value placed by Navy Works

£4,000 in value placed by Navy Works Department: Lancashire—painting masts and towers Baxter Bros. (1920), Ltd., Newcastle upon

Tyne. — construction of concrete foundations — John Hunt, Ltd., Gosport: concrete raft and platform—Jno Croad, Ltd., Portsmouth.

Air Ministry.—Contracts to the value of £4,000 or over for the week ended May 5:
Artificers' work: North Weald, etc. (Essex)—L. W. Free, F.C.A.,, receiver and manager for S. Cronin and Sons, Ltd., 192 Warley Hill, Brentwood, Essex.
Medium pressure hot water heating and steam plant (supply and installation): Froodos, Cyprus—Saunders and Taylor, Ltd., Camberwell, London, S.E.17.
Renewing boilers and conversion of existing boilers to oil firing, etc.: Upwood, Huntingdon—The Freeman Heating Co., Ltd., Balham, London, S.E.17.
High pressure hot water heating installation: Finningley, Yorks,—Norris Warming Co., Ltd., Theobalds Road, London, W.C.1.
Heating installation: Shawbury, Salon—Edwid Road, Indiana Co., Ltd., Theobalds Road, London, W.C.1.

ing Co., Ltd., Theobalds Road, London, W.C.I.

Heating installation: Shawbury, Salop—Edwd. Deane and Deal, Ltd., Temple Avenue, London, E.C.4.

Land maintenance: Fylingdales Moor Yorks.—Mitchell and Struthers, Ltd., Kilmarnock, Ayrs.

Preservation work (paved areas): Fairford, Glos.—The Limmer and Trinidad Lake Asphalt Co., Ltd., Vauxhall Bridge Road, London, S.W.I.

Runway resurfacing: Chivenor, Barnstaple, Devon—Chittenden and Simmons, Ltd., Palace Street, London, S.W.I.

Electrical mains distribution: Fylingdales Moor, Yorks.—Holliday (Eastern), Ltd., Ipswich Suffolk.

Electrical installations (external and installations)

Electrical installations (external and internal): Aden—Thorpe and Thorpe, Ltd., New Broad Street, London, E.C.2.

Ministry of Works. — Contracts placed for week ended April 29:

Henstry of works.—Contracts placed for week ended April 29:

Hertfordshire: Department of Scientific and Industrial Research, Warren Springs Laboratory, Stevenage — construction of extension to workshops—Davies and Rentowl, Ltd., Victoria Street, St. Albans: Boreham Wood—erection of Crown building—W. J. Simms, Son and Cooke, Ltd., Haydn Road, Sherwood, Notts.

Kent: Head Post Office, Gravesend—demolition work and provision of new lavatory block—G. E. Wallis and Sons. Fairfield Works, Gravesend.

Lancashire: Head Post Office, Victoria Street, Liverpool—alterations to public office (counter)—A. Edmonds and Co., Ltd.. Constitution Hill. Birmingham, 19: Ministry of Pensions and National Insurance, Grasmere Street, Leigh—alterations and new extension—George Moss and Sons, Ltd., St. Helens Road, Leigh.

Lincolnshire: Danegate, Lincoln—completion of office building—W and J. Simons, Ltd., Friars Lane, Lincoln, London: Offices, Eagle House, 90-96 Cannon Street, E.C.—alterains and redecorations—Clemens Bros., Ltd., 77 Derivation of branch Post Office, S.W.8—erection of branch Post Office, Whyatt (Builders), Ltd., 225 Streatham High Road, S.W.16.

Norfolk: Sugar Store, Kings Lynn—alterations to form telephone engineering centre—E. G. Carter, Ltd., Drayton, Norwich.

Surrey: Post Office, Walton-on-Thameserection of motor transport workshop-

Surrey: Post Office, Walton-on-Thames-erection of motor transport workshop-W. and E. Simmons, Ltd., 4 Rydens Road, Walton-on-Thames, Sussex: George V Avenue, Worthing-erection of branch Post Office-Keith Andrew and Co., Ltd., Warwick Road,

Sussex: George V Avenue, Worthing-erection of branch Post Office—Reith Andrew and Co., Ltd., Warwick Road, Worthing. Yorkshire: The Hawkhills, Easingwold— erection of stores, office and workshop-Sorrell (York), Ltd., 95 Heworth Village,

War Department. — Contracts placed for the week ended April 28:

Dorset (Bovington Camp) heating and ventilating—James Drewitt and Son, Ltd. Bournemouth.

wentiating—James Drewitt and Son, Lid.
Bournemouth.
Co. Down (Newry): building—Henry
Cole, Newry.
Gloucestershire (Ashchurch): building
—Espley and Co., Ltd., Evesham.
Kent (Canterbury): miscellaneous—
C.A.S. (Contractors), Ltd., London, W.S.
(Shorncliffe): miscellaneous—J. J. Cayson and Son, Ltd., Folkestone.
Lanarkshire (Glasgow): miscellaneous—James McBrearty. Ltd., Glasgow.
Midlothian (Edinburgh): miscellaneous—Crudens, Ltd., Musselburgh.
Pembrokeshire (Pembroke Dock): painting and decorating: Norman Oldham, Ltd.
Cardiff.
Contracts placed for the week product

Contracts placed for the week ended May 5:

May 5:
Durham (various): miscellaneous—John Roxby Surtees, Ltd., Blackhill,
Hampshire (Worthy Down): building—Charles R. Price, London, N.W.9; (Aldershot): building—R. C. Radford and Sons.

Shot): building—R. C. Radford and Sons.
Ltd., Farnham.
London (Woolwich)): building—Peter
Lind and Co., Ltd., London, S.W.
Pembroke (Pembroke Dock): roof repair
—George Argent and Co., Ltd., Pembroke.
Surrey (Chertsey): miscellaneous-

Surrey (Chertsey): miscellar Sherfields (Farnham), Ltd., Farnham.





Yet another specification has ensured a pipe of durability, reliability and strength. Wherever main drainage schemes are under construction it is essential to lay pipes that will give

lasting service. "Rock Concrete" Spun Pipes provide a non-corrosive, trouble-free system, capable of meeting the needs of the most exacting specification.

Also Manufacturers of: SALT GLAZED STONEWARE PIPES AND FITTINGS

.. of course

BOURNE VALLEY POTTERY, PARKSTONE, POOLE, DORSET. Tel: Westbourne 61226-7-8

## Trade and Company News

## LIGHTWEIGHT ROTARY COMBUSTION ENGINE INTRODUCED

NEW prime mover, whose design A eliminates the conventional crank-shaft, connecting rods, valves, cam-shaft, etc., has been developed by william R. Selwood, Ltd., Chandler's Ford, Southampton.

The engine itself has a rotational movement only while retaining all the gasrotational



The new engine

tight qualities associated with the reciprougnt qualities associated with the recipro-cating engine. The engine's mass replaces the flywheel, contributing to the unit's high-power/weight ratio. It contains 12 cylinders, the whole gyrating on its own axis.

Another axis is provided for 12 pistons mounted on a spider and so arranged that the orbital path of the former during rotation, crosses the orbital path of the

latter resulting in oscillation which is relative, but not actual, the whole combined movement being completely free of vibra-

The basic engine in 12-cylinder form has a capacity of 700 c.c., but this capacity can be increased to one litre in this size which approximates to a 10½in. sphere. An engine of twice this bulk would have a capicity of 8 litres and so on.

In view of this basic engine having 12 cylinders adapted to the two-stroke cycle, 12 impulses are present per one revolution, but on account of two cylinders being arranged to fire simultaneously the uniformity of torque equals that of a 12-cylinder four-stroke. This simultaneous firing of two cylinders removes or cancels out end thrust on the main bearings, thereby reducing frictional losses. by reducing frictional losses.

The makers state that it has been possible to overcome the portage limitations in-herent in conventional two-stroke engines, herent in conventional two-stroke engines, by means of the application of closure members which provide in combination with the rotation of the mass, sharp portage cut-off. Fuel wastage is therefore not a feature in the engine. The masking of the portage is infinitely variable while the engine is running and may be automatic in operation, the masking being self. in operation, the masking adjusting to engine speed. being

Lubrication is said to be no problem in this engine, the uniformity of cylinders and parts within the rotating mass receive equally their requirements, while expan-sions due to temperature are likewise uniform. All cylinders operate under identical conditions of aspiration.

#### NEW CHIPBOARD FLOORING

The Airscrew Company and Jicwood Ltd., Weybridge, Surrey, have introduced a new general purpose wood chipboard—Weyroc G.P.

Produced for the building, shopfitting and allied trades, the Weyroc is supplied in 8ft. by 4ft. by \$\frac{1}{2}\$in, boards, and is approved for suspended flooring on joists at \$\frac{1}{2}\$ for earters. at 16in, centres.

#### SELF-ADJUSTING BRAKES ON MOTOR GRADERS

THE LeTourneau - Westinghouse Co., Peoria, Illinois, U.S.A., announce that all LW-Adams motor graders shipped from the Indianapolis, Indiana, plant are now equipped with Bendix Duo-Servo self-adjusting brakes as standard equipment. The automatic brake adjuster is operated by movement of the secondary shoe during reverse application. This action takes place only when sufficient lining has been worn away to permit the adjuster.

been worn away to permit the adjuster lever to pick up the next tooth of the ad-justing screw and turn it slightly.

Automatic adjustment takes place during reverse brake application. In this way, it stated, over adjustment due to excessive drum expansion caused by repeated high speed forward brake stops is preven-

#### PARKINSON COWAN'S NEW WATER METER

Introduction of a new water meter, the Type 44, has been announced by Parkinson Cowan Ltd. Available in the jin, size with either wet or dry dial, the dry dial version being supplied with centre pointed or direct reading index the meter can hardle reading index, the meter can handle without loss of accuracy flows of 400 gal/h at 10ft. head loss, continuously for 24 hours a day. At flow rates as low as 5 gal/h the accuracy is guaranteed to within ±2 per cent.

Of particular interest to maintenance engineers is the two part screwed gunmetal casing which, in conjunction with the absence of screws in the assembly of the meter, means that components can be replaced, if necessary, without using tools

any kind.

## 2IN. SUBMERSIBLE PUMP WEIGHS 55LB.

A 2in. submersible pump, weighing only 55lb., has been introduced by A. C. E. Machinery, Ltd., Porden Road, London, S.W.2.

Known as the Weda L204, it is constructed of lightweight aluminium alloy and has a capacity of 130 g.p.m. against a head of 15t. It incorporates built-in automatic motor protection. In the event of excessive temperature, the pump motor is automatically switched off and remains so until it returns to its normal temperature. until it returns to its normal temperature hen the motor automatically restarts

## LAND ROVER-MOUNTED HYDROVANE COMPRESSOR

A HYDROVANE compressor for Land Rover mounting has been produced

by The Hymatic Engineering Co., Ltd., Redditch, Worcs It is driven by the vehicle's engine through the rear p.t.o. and fits in place of the normal tailboard.

Known as the 72LR, the compressor will operate continuously, at full power, one heavy concrete breaker or similar pneumatic tool. It has a free air delivery of 72 c.f.m. working pressure 100 p.s.i.

The unit is an oil-cooled oil-sealed rotary compressor, with built-in equipment, including an air-intake filter, pressure gauge and safety valve. It has a gross weight of 5181b., and measures 45in. x 38in. It is designed for use with airbar, partial, or use with airbar, and use with a for use with either petrol- or diesel-engined Land Rovers, and for mounting on either

regular or long wheelbase models, no strengthening of the body being necessary.



Land Rover-mounted compressor

## DIGITAL SYSTEM FOR PROCESS INSTRUMENTS

Rotax, Ltd., Chase Road, London, N.W.10, have developed a system for the remote indication and recording of data from conventional process measuring instruments. The basis of the system is analogue to digital conversion at the instrument shaft without appreciable additional loading of the movement. This converter is inexpensive and can be fitted to pressure gauges and other instruments.

converter is inexpensive and can be litted to pressure gauges and other instruments, converting them to digital transmitters.

Transmission of data readings can be automatic or on manual demand, either single or as part of a complete data logging system. Digital signals and control call-up signals are transmitted along two wires only and the power used has been kept low anough to satisfy Post Office line require. enough to satisfy Post Office line require-

#### SEWER SURVEY METHOD

Mercol Descaling Co., Ltd., 47 Eyre Lane, Sheffield, 1, are carrying out a new method of internally surveying large sewers and

culverts.

This is executed by surveyors equipped with transistor communication sets by which information is transmitted to the surface where a detailed report is compiled. The cables of the communication sets are marked in yards and feet, thus enabling the exact footage covered by the surveyor to be calculated. calculated.

#### Trade and Company News

### **NEW COMPANIES**

The undermentioned particulars of new The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London,

agents, 116 Chancery Lane, London, W.C.2:—
Bird Builders, Ltd., 387 Canal Approach Trundleys Road, S.E.8. £2,000. Directors: Geo. T. Bird, Flat 2, 15 North Park, S.E.9; Geo. A. Bird, 280 Chipperfield Road, St. Pauls Cray, Kent.
Porter and Co. (Builders), Ltd. £1,000. Directors: Desmond T. Porter, 275 Brookside, Burbage, Hinckley; Kenneth Montrose, The Firs, Lower Road, Barnacle, Coventry.
H. A. Tilbury, Ltd., 202 West Street, Fareham, Hants, builders. £2,100. Directors: Henry A. Tilbury, Mrs. L. R. Tilbury and Ranleigh C. Tilbury, all of 6 Blackbrook Road, Fareham, Hants.

1. Screene and Co., Ltd., 52 Bedford Row, W.C.I, builders. £1,000. Directors: James Screene, 41 St. Augustines Road, N.W.I.
J. Saunders Jones (Builders), Ltd., 12 Ronaldsway, Rhyl.
E. Barfield and Co., Ltd., builders. £100.

S. Jones and Finda Johes, 12 Rohadsway, Rhyl.

E. Barfield and Co., Ltd., builders, £100. Directors: Eric S. W. Barfield and Mrs. P. Barfield, 95 Willow Vale, W.12.

Demolition (Miles), Ltd., Kiln Barn Road, East Malling, Kent. £2,000. Directors: James Miles and Mrs. Norah E. Miles, Flat 6, 113 Blackheath Park, S.E.3.

Blainett Construction Co. (Kent), Ltd., 4 Higheroft Road, South Benfleet, Essex, builders. £2,000. Directors: Albert E. Bennett, 48 Ash Road, Canvey Island; Wm. D. Blainey, St. Dominic, Coker Road Canvey Island.

D. Blainey, St. Dominic, Coker Road Canvey Island.

R.A.D.C., Ltd., public works contractors.
£100. Directors to be appointed by subscribers. Subscribers: Arthur J. Corbett, 134 Shakespeare Drive, Shirley, Solihull (clerk); James M. G. Fear, The Lowe, Worfield, Bridgnorth, Salop (clerk).

W. Wigham and Son (Builders), Ltd., 39 Sheppard Terrace, Castletown, Co. Durham, 29 Sheppard Terrace, Castletown, Co. Durham, 39 Sheppard Terrace, Castletown, Co. Durham, Mrs. Susannah B. Faith, 29 Sheppard Terrace, Castletown, Co. Durham, W. H. Milton (Builders), Ltd., 17 Gilbert Road, Kingswood, near Bristol. £10,000. Directors: Wm. H. Milton (permanent) and Mrs. L. Milton, 50 Gilbert Road, Kingswood, near Bristol.

C. Cleaver, Ltd., 12 Cathedral Road.

near Bristol.
C. Cleaver, Ltd., 12 Cathedral Road, Cardiff, builders. £1,000. Permanent directors: Cecil Cleaver and Mrs. G. M. Cleaver, 26 Turner Road, Cardiff.
Harding Construction Co., Ltd., builders. £1,000. Directors to be appointed by sub-

scribers. Subscribers: Percy O, Ansell and George A. Corderoy, 116 Chancery Lane, W.C.Z.

Scribers. Subscribers: Percy O, Ansell and George A. Corderoy, 116 Chancery Lane, W.C.2.

A. and C. Burgess and Co., Ld., 35 Ellsworth Road, High Wycombe, Bucks., public works contractors. £4,000. Directors: Arthur Burgess, 1 Chiltern Close, Princes Risborough; Clifford Burgess, 35 Ellsworth Road, High Wycombe, Bucks; Leslie F. Baldwin, The Orchard, Sedgmoor Road, Glackwell Heath, Bucks.

W. A. Chandler and Son, Ltd, builders. £2,000. Directors: Wm. A. Chandler (permanent) and Mrs. Florence Chandler, 43 Bridle Road, Eastcote, Pinner, Middx.

Uzzell and Morgan (Caldicott), Ltd., The Pill, Caldicott, Mon., builders. £5,000. Directors: Edward J. Uzzell, 20 Tarrington Road, Gloucester; Donald A. Morgan, 39 Teddington Gardens, Gloucester; Mrs. R. K. Uzzell, Mrs. D. M. L. Morgan, D. H. Baldwin and C. O. Davis.

Thornton and Norgan, Ltd., 76 Church Road, Ashford, Middx. £500. Directors: Gabriel J. Thornton, 43 Elizabeth Avenue, Laleham, Middx.; Henry Norgan, 4 Margaret Close, Laleham, Middx.; Margaret C. Thornton and Lilian J. Norgan.

Kavanagh Bros., Ltd., Central Chambers, Red Lion Square, Heanor, Derbys., plant hire contractors. £100. Directors: Geo. Kavanagh, Winston Lodge, 136 Nottingham Road, Huckhall, Nottingham; Joseph Kavanagh, 13 Albemarle Road, Woodthorpe, Nottingham.

W. E. Webster (Builders), Ltd. £400. Directors: Wm. E. Webster and Emily J. Webster, Tudor House, Marlpit Lane, Seaton, Devon; Peter M. Warden, 5 The Gardens, Vaughan Road, West Harrow.

F. E. Hale and Sons, Ltd., 1-3 Westmoreland Street, Bath, Som., builders. £5,000. Directors: John M. Hale, 77 Wellsway, Bath: Thomas E. G. Hale, 5 Haydon Close, Bath. Stevens and Barrett, Ltd., builders, £6,000. Directors: Ernest I. Stevens, 4 Cherry Close, Knebworth; Ronald A. Barrett, 8 Boxberry Close, Stevenage; Mrs. Irene F. Stevens and Mrs. Gewadolline E. Barrett.

P. C. M. Williams (Builders), Ltd., 200ble Bass, Valebridge Road, Burgess Hill, Sussex.

A. Willett (Sanitary and Building Contractor), Ltd. £100. Directors: Raymond W. Merrick, 22 Hamilton Av

### IMPROVEMENTS TO GIESON REFUSE COLLECTORS

THREE types of refuse collection vehicles are to be shown at the Aberdeen Cleansing Conference in June by John Gibson and Son, Ltd., Jameson Place, Leith, Edinburgh, 6.

Leith, Edinburgh, 6.

These are: a Karrier Gamecock 9ft. 7m. wheelbase chassis/cab fitted with a 12/18 cu. yd. Gibson "Pendulum" compression refuse collector; and Gibson-Paladain bin lifting equipment at the rear; and a 7-ton Bedford TK 151in. wheelbase chassis/cab fitted with a 16/24 cu. yd. Gibson "Pendulum" compression refuse collector and coam cab extension. crew cab extension.

Recent improvements include the mounting of the load ram on the vehicle chassis. This is connected to the rear barrier by means of a hingelink, into which a hook-eye on the barrier fits. In the old hydraulic system the ram was mounted on the body only and long lengths of hydraulic piping gave considerable pressure loss. sure loss.

On discharge, the rear door, by means On discharge, the rear door, by means of this hook, now uncouples itself automatically from the load ram connection. On earlier models a withdrawal pin was used, the pin opening the safety by-pas valve. This valve has been repositioned and is now actuated by the load ram and the vehicle can only be tipped when the door is in the extreme rear position.

### DORMOBILE ON LAND ROVER

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En in sin become Garage Basis Basis

A Dormobile caravan conversion of the long Land Rover station wagon by Martin Walter. Ltd., 145 Sandgate Road, Folke-stone, is now being produced in two berth

and four berth models.

All interior fittings, cabinet work, etc., are constructed in stove-enamelled steel, and the Dormobile elevating roof is formed in fibreglass with the canopy portion is double coasted by a material double-coated p.v.c. material.

The compact units of the caravan fittings are located to the rear of the vehicle, giving easy access to seats or beds. When two easy access to seats or beds. When two persons only are carried, the two rear seats may be folded close to the body side, leaving additional clear unobstructed floor space available for extra equipment. With the roof in the raised position, full headroom of 7ft. Sin. is provided in the interior of the vehicle. Large panoramic window and an opening vent panel are built into the roof.

### TRADE NEWS IN BRIEF

From Road Rollers, Ltd., 928 Melton Road, Thurmaston, Leicester, a new brochure describing their road roller hire service.

Aygee, Ltd., have moved their headquarters offices, glass division and hospital equipment division to new premises in Tanner Street, Bermondsey, London, S.E.l.

Frain Bros. (London), Ltd., announce that they have acquired the free hold premises previously occupied by the East Barnet U.D.C., and as from May 22, their offices will be moved to Cable House, I Lyonsdown Road, East Barnet. Tel. Barnet 9618 (P.B.X.). The company's transport plant and stores depot will remain at Station Road, Berkhamsted.

The new address of Henry Froud, Ltd., is Harrow Manor Way, Abbey Wood, London, S.E.2. Tel. Woolwich 9558-9.

Asbestos and Rubber Co., Ltd., have moved to new premises at Waverley Street, Hessle Road, Hull.

The new address of the Natural Rubber Bureau is now 19 Buckingham Street, Adelphi, London, W.C.2. Tel. Whitehall 9314 (5 lines).

Frederick Parker, Ltd., Leicester, announce that their Mini-Giant concrete mixer is now available with 1½ h.p. diesel engine or a 1 h.p. B.S.A. petrol engine.

A new research report, "The Sustained Load Strength of Timber," by H. Tottenham, M.A., is available from the Timber Development Association, 21 College Hill, London, E.C.4.

A. A. Williams (Contractors), Ltd., have changed their address to Keswick House. Worple Road, Isleworth, Middx. Tel. isleworth 6353.

The address of Simplex Concrete Piles, Ltd.,

The address of Simplex Concrete Piles, Ltd.,

is now 7 Lygon Place, Grosvenor Gardens, London, S.W.I. Tel. Sloane 9122/3/4.

Briere (London), Ltd., have changed their address to 46 Gorst Road, North Acton, London, N.W.I.O. Tel. Elgar 1911 (4 lines).

Pilkington Bros., Ltd., St. Helens, Lancs., have issued a new 67-page glass catalogue. Scaffolding (Great Britain), Ltd., announce that the telephone numbers of their depot at West Savile Terrace, Newington, Edinburgh, have been changed to Newington 3191 and 1543.

The new address of P. Marcian.

West Savile Terrace, Newington, Edinburgh, have been changed to Newington 3191 and 1543.

The new address of P. Merriman, Ltd., civil engineering contractors is 103 Sandiacre Drive, Thurmaston, Leicester.

A new automatic chlorine residual controller is described in a brochure just published by Wallace and Tiernan, Ltd., Power Road, London, W.4.

From June 1, 1961, the title of Pearl Varnish Co., Ltd., Treforest Industrial Estate, Pontypridd, Glam., will be Pearl Paints, Ltd.

Two new publications by Air Pumps, Ltd., Bushey, Road, Raynes Park, London, S.W.20, detail the range of their oil-cooled mobile rotary compressors and their Mark III, air-flow cooled two-stage electric driven stationary reciprocating air compressors.

"Rectangular Hollow Sections" is the title of a new booklet issued by Stewarts and Lloyds, Ltd., Brook House, Upper Brook Street, London, W.1, covering all sizes and properties in the hot finished wedled and hot finished seamless ranges produced by the company.

Winget, Ltd., Rochester, announce that their telephone number has been changed to Strood (Kent) 78641 (8 lines).

#### VILLIERS' VERTICAL-SHAFT LIGHTWEIGHT ENGINE

vertical-shaft four-stroke engine, de signed largely to meet a demand for power units for rotary grass cutters, is the second model in the new range of Villiers and JAP lightweight engines to go into pro-duction at the Wolverhampton factory of The Villiers Engineering Co., Ltd.

The Villiers Engineering Co., Ltd.

This 150 c.c. (9 cu. in.) single-cylinder four-stroke engine follows the current "over-square" design trend, having a 63 m.m. (2.48in.) bore and a 47 m.m. (1.84in.) stroke. It develops its peak rating of 3.23 b.h.p. at a shaft speed of 3,600 r.p.m. It is built extensively of light alloys and weights only 26ib. complete with tank, recoil starter, silencer and air cleaner.

#### MULTICOLOURED GLASS FIBRE PANEL

A glass fibre panel produced in must than 3,000 colour combinations has been developed by Scobalitwerk of Andernach.

Rhein, Germany.

The colouring is done at the factory by The colouring is done at the factory of embedding plastic pigments into the body of the sheet. The panel is 38in wide and is divided into 13 invisible stripes running parallel with the corrugations. Any standard colour can be built into the stripes and any combination of colour is possible. The panel is known is Scobalit Royal.

# £102,000 MANSFIELD FACTORY IS OF TIMBER CONSTRUCTION

# The Largest of its Kind in Europe

WHAT is believed to be the largest W timber-constructed factory in Europe was recently opened at Southwell Road, Mansfield, Notts., for Foister, Clay and Ward, Ltd.

Foister, Clay and Ward, Ltd.

The new factory, of 50,000 sq. ft., is built on a site liable to mining subsidence and settlement. The sandy nature of the strata was a further hazard to be allowed for and these factors were taken into account in the design of a reinforced concrete slab foundation, which was divided into three equal and discontinuous units as a safeguard against movement. These discontinuous subsidence joints are carried a safeguard against inovement. These dis-continuous subsidence joints are carried through the superstructure and special detailing at roof connections ensures that the factory will remain initially weather-proof should settlement take place.

### Timber Units

The system of component construction The system of component construction mployed, known as New Type 6, consists f the assembly of factory-made timber nits on site, and is designed to conform the British Standard Codes of Practice P. 112 (1952) and C.P. 3 Chapter 5 1952). Both the structural and planning nodule is 6ft. 4in. and the vertical module module is 6tf. 4in. and the vertical module lft. 4in., plus an 8in. head increment which permits standard wall panels to be used with either a flat roof and deep fascia or with a pitched roof of 12 deg. for smaller

Discontinuous construction at sub-sidence joints, and the large floor area to be covered, necessitated additional stiffen-

ing within the superstructure and this was achieved by the use of 19 portal frames, 13 spanning 38ft. 4in. and six spanning 13ft. These are of solid laminated timber and plywood construction with steel plate joint connections to facilitate transporting site assembly.

Roof beams are of plywood box construction with laminated top and bottom cords and 170 of these were required, spanning 38ft. 4in. and in size 24in. deep by 4in. wide. Internally the main roof

by 4in. wide. Internally the main roof beams are supported by laminated trimmer beams spanning 12ft. 8in. to reduce the number of supporting columns providing greater freedom of floor space.

External panels are 12ft. 8in, high to provide a ceiling height of 12ft. 7in. and manufactured to high standards with machined and glued joints. Infill panels of Colourglaze were used to reduce external maintenance to a minimum, with different colours for window panels and solid areas. This material was also used to meet the by-law requirement for nondifferent colours for window paners and solid areas. This material was also used to meet the by-law requirement for non-combustible external claddings, and to achieve the required fire resistance the external walls are lined internally with ½in.

### Built-up System

The roof consists of 1,080 prefabricated panels measuring 6ft. 4in, by 6ft. 4in. A built-up roofing system comprises of three layers of asbestos based felt continuously bonded with bitumen and surfaced with ½in. stone chippings, the first layer of felt being bonded to the roof

panels at works to provide initial weatherproofing during the erection stages

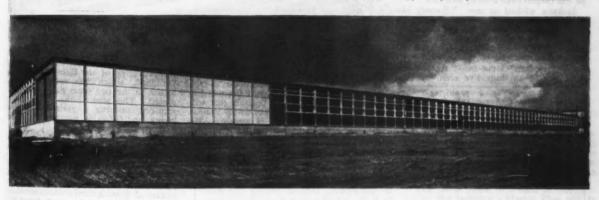
A total of 289 rooflights were incorporated and these are monopitch aluminium construction 3ft, by 3ft, Fibreglass, Iin, thick, is incorporated with a 1 in, plasterboard ceiling and the roof value is .16.

Erection was completed in 14 weeks under difficult weather conditions. The choice of a flat concrete slab foundation proved advantageous, however, allowing a fork-lift truck free access for off-loading components, stacking, and finally lifting all roof beams and roof panels into all roof position.

The erection time was reduced by the decision to use electric under-floor heating installed after the main erection process was completed. The choice of this form of heating took into account the insulation value of the superstructure and the economic use of "off-peak" supplies. It was also necessary to maintain a 65 deg. F. air temperature for the workers who would be on comparatively static work at small machines, indicating a need for a high degree of radiant heat.

The heated floor area of 42,600 sq. ft. is one of the largest single floor areas to be heated by this method, involving a load of 527-kW. As with the concrete foundation, the heating installation is divided into separate units and thermostats operate limited groups of heating circuits to ensure economy of operation and a maintenance of even temperature. Any portion of the heating elements can be replaced in this re-wireable system without interruption of factory production.

The cost of the factory and office buildings was about £102,000. Vic Hallam, Ltd., Langley Mill, Nottingham, the designers and manufacturers of the New Type 6 system, were the contractors.



The new factory at Southwell Road, Mansfield

# COLLABORATION OF LANDSCAPE ARCHITECTS AND ENGINEERS

WE are, in fact, on the threshold of Wa new era of landscape, and if England is to lead the rest of the world in this conception of the country as a single landscape unit, it is mainly because it is so very small and over-drowded."

That opinion was expressed by Mr. G. A. Jellico in London last week when he presented a Paper on behalf of the lastitute of Landscape Architects at a bint meeting with the Institution of Civil Engineers. Mr. C. S. Chettoe presented a Paper from the civil engineers' viewpoint.

"Engineers and landscape architects can

Engineers and landscape architects can collaborate without friction," said Mr. ellicoe. He considered there are great opportunities lying on every hand, not

merely to preserve what is good in the existing landscape, but to create new

existing landscape, but to create new forms on a very great scale.

After paying tribute to such public-spirited bodies as the Council for the preservation of Rural England, he declared: "Side by side with preservation must go creation: landscape renewal complementary to urban renewal."

# Three Dimensional Composition

Mr. Chettoe said: "Great modern struc-Mr. Chettoe said: "Great modern structures and road developments with their related bridges are primarily the conceptions of engineers working for public bodies. The main job of the engineer is, however, to design so that his structure functions efficiently; the architect is trained to design for visual effect so that they form a three - dimensional composition.

"The greatest works of art will not be produced by the application of rules, though these will help; they will only be evolved through inspiration, in which, one might say, artists in all these related fields give of their best not only in the broad design but in attention to detail."

# **Effective Collaboration**

Mr. Chettoe felt there was a large field for collaboration between landscape archi-tect and engineer, as there was between architect and engineer. Collaboration to be fully effective must start at the inception a project.

of a project.

He mentioned a system of collaboration in design, evolved by the Central Electricity Generating Board, which appeared to work well. "Engineers, architects, and landscape architects are brought together at the beginning of a project, and standard terms of reference provide for the landscape architect and the architect to work together."

# Talking of Safety "DRAGEE"

FOR some months we had been carry-ing out a series of careful tests with a variety of different makes of cartridge tools, and now the time had come for a final decision to be made, with a view to standardisation.

The tests had been performed in an empty wooden shed—formerly a bolt store—and possibly the repeated detonations had and possibly the repeated detonations had produced a certain amount of apprehension amongst the dwellers in the little houses on the boundary of the plant yard. They must have wondered whether the rumour was true that the eccentric people on the other side of the fence had really set up a rifle range to while away the tedious hours. "Only last week," one of them would be saying "they were ringing bells all day long." (We were experimenting with a fire-warning system) "And now it's come to this." Trials were carried out under laboratory conditions, using a special rig which would allow each tool to be fired into a variety of materials by remote

rig which would allow each tool to be fired into a variety of materials by remote control, and the strictest possible safety precautions were observed.

On the last day, I attended a little meeting with the plant manager, Dick Roberts, and an erection engineer, Arthur Jackson. One of the tools had eventually been selected for its outstanding safety features, as well as its excellent performance.

"I always believe in a thorough check-up," said the plant manage. "The up," said the plant manager. "It giv confidence in your choice—and you be too careful over a thing like this. "It gives you you can't

Jackson winked at me. "Sounds like an ad. on the telly, doesn't it? As far as I'm concerned it's O.K. for the job, and I gather Mr. Safety is happy, so now it's settled. We'll want half a dozen tools for

my area by the end of the month."

"Not so fast," I cut in. "Agreed this is as safe as anything I've seen, but you

appear to have overlooked one thing." "What's that?"

"What's that?"

"We haven't got the operators yet. We don't allow anybody to use cartridge tools until he's had proper training. That's in our book of rules."

"Quite right," said Roberts. "This thing is as safe as they come, but you just can't put it into untrained hands. That's simply asking for trouble."

"So what do we do?" asked Jackson.

"It's quite simple," I said. "You pick a few bright lads out of your area and we send them to the maker's depot for a course of instruction. In fact, that's already laid on. Actually it only takes a few days and they'll be ready for you when you need them. Also, I can assure you that good training pays dividends. Not only do the operators work more safely, but they are far more expert than the untrained men."

"Well, that sounds pretty reasonable. What sort of stuff do they learn?"

"First of all, each man is shown exactly how the tool works, and the function of each of the parts. As you know, maintenance plays a big part in the operation of cartridge tools, and the man operation of cartridge tools, and the man will be taught how to strip it down for cleaning and examination—and, of course, how to put it together again. Then he does the safety drill. He's taught to treat the tool as a firearm—always to point the muzzle towards the ground and never towards himself or other people, and, of course he must never leave a leaded tool. course, he must never leave a loaded tool unattended.

"Ah," said Jackson, "I remember one evening in '43 when I was in the Home Guard

I pretended not to hear.

"After that the trainee is taught the correct methods of loading and firing and how to select the correct charge for the purpose in hand. He must have a safe standing or sitting position—that's true for any work, of course, but for this job he needs a rigid working position that will enable him to press the tool firmly against enable him to press the tool firmly against the surface at which he is working. He will be instructed never to fire the tool when there are other persons in the

vicinity. Then he will learn about the various operating hazards—the things that happen when driving projectiles into very brittle materials, soft walls, and so on. There will also be some instruction on how to deal with misfires."

"Whew!" said Jackson. "Does he really need all that?"

"He does, and a good course of training will make it certain that he gets it-provided he's the right type of man—some-body of reasonable intelligence, preferably over 20 years of age, interested in the job, and sufficiently conscientious to work safely on his own.

"What about protective equipment?"

"I would say that a really good pair of safety goggles is the first essential, then a safety helmet."

a safety helmet."
In due course, the first small batch of trainees went to work and soon proved the soundness of our policy.
It is well said that "No man is greater than his deeds, More generous than his gifts, Or safer than his actions."

# DAM TO BE BUILT BY FRENCH

Dundee Water Committee have approved in principle a proposal by their consulting engineers, Babtie, Shaw and Morton, employ a new French system on the co-struction of a £2m. reservoir dam at Hill of Bellaty in the Melgam Valley.

of Bellaty in the Melgam Valley.

The system, known as the "mancheta" process, is a method of treating water bearing strata by grouting. It is now being used on the construction of a 400ft. high dam in the South of France, and on other schemes in Hong Kong and the Rhineland.

The Bellaty reservoir will have a capacity of 3,200 million gallons and will provide the city with a further 6,000,000 gallons a day.

## PORTSMOUTH GUILDHALL ROOF COVERING

Portsmouth City Council have been recommended to replace the aluminium roof covering of the Concert Hall at the Guildhall, which has suffered chemical attack in the two years since it was completed. This part of the roof would be replaced utilising a revised method of laying, and following negotiations, without cost to the Council.

There had also been a minor chemical

There had also been a minor chemical attack, reported Mr. E. Berry Webber, who carried out the investigation, on the aluminium which abuts on the Clock Tower and the flanking stonework. Remedial measures in this case would be to treat with asphalt all flashings and abutting panels and to replace damaged aluminium panels new ones, at an estimated cost of £500.

# BRITISH STANDARDS Protective Canvas Sheets for Overhead

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# Work

Overhead work by builders, demolition squads, engineers, painters and other should be less hazardous to the passer-by when protective sheets of the kind specified in this British Sandard (B.S.3349: 1961) are in use.

in this British Sandard (B.S.)

The sheets are designed to catch faing tools, materials and debris and thus protect passers-by from possible injury. It is emphasised that they are not intended a safeguards for the overhead workers themselves, for whom other precautions are

required.

Detailed requirements and tests are laid down for the materials, proofing and making-up of the sheets, to ensure that they are strong, rot-proof and water-proof.

Copies of this British Standard may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.



"I told him she 'backfired' a bit, but he said he could swing it—that's him now just going into orbit!"

# 30-ACRE REDEVELOPMENT SCHEME AT WEST HAM

# Work Starts on £1.2m. Rathbone Street Area

THE Direct Labour Department of West Ham Borough Council have begun work on the first phase of a scheme for the redevelopment of a 30acre site in the Rathbone Street area, Canning Town, London, E.16.

Canning Town, London, E.16.

More than £1,200,000 is to be spent on the area, which forms a triangle within the main traffic arteries, Barking Road, Silvertown Way and the Beckton Road. A new trunk road is to be superimposed upon it connecting the existing junction of Silvertown Way and the Barking Road with the Beckton Road. The trunk road virtually divides the site and the development has been planned in two phases. ent has been planned in two phases.

Phase I covers an area of 11.48 acres

contained by Silvertown Way, the new trunk road and Rathbone Street, with two additional blocks adjacent to the May-flower centre. Under this phase 402 dwellings, accommodating 1,685 persons will be built, together with 160 garages. Work on the first phase will take about two years and will cost £1,033,624. The layout is based upon three interlocking inward looking squares, each with two-three- or four-storey developments forming the square and an 11-storey point to ing the square and an 11-storey point to the centre of the square. The whole of this area cannot be developed simul-taneously as the existing market in Rath-bone Street will have to function during the construction period.

Phase II is scheduled to start in August.

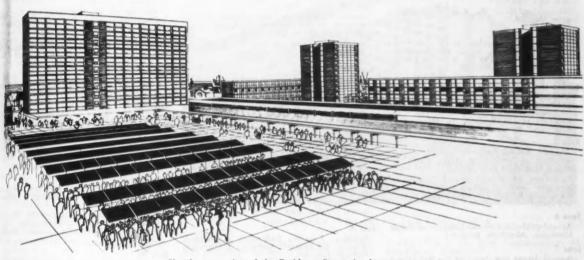
1961, and to be completed in February, 1963. This area is to the north of the new trunk road and is bounded by the Barking Road and Rathbone Street. Plans for it include a 10-storey block containing 80 one-bedroom flats, built over shops. There will be 29 shops, two multiple stores and a post office. The layout also includes an open market suitable for about 160 stalls.

The cost of the second phase, excluding one multiple store and the post office will be about £176,902. Subject to Ministry approval, the tender of Leslie and Co., Ltd., 20 Peel Street, London, W.8, is to be accepted for the work.

As soon as the market has been built the remaining work on the scheme will be put in hand, including the conversion of Rathbone Street into 122 dwellings, accommodating 380 persons, and the provision of a one-acre car park. The whole project is due for completion in February, 1964.

Plans for the project have been proposed.

Plans for the project have been prepared under the direction of the borough architect, Mr. T. E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I.



Sketch perspective of the Rathbone Street development

# IMPORTANCE OF CO-OPERATION IN THE BUILDING **INDUSTRY**

DEVELOPMENT on selfish unilateral lines is foredoomed to failure in a period when the world is unfolding before us with incredible rapidity through international transport at speeds faster than sound, and there never was a time when the importance of collaboration and co-operation between all members of the building industry was so clearly defined."

This statement was made by Mr. T. V. Prosser, F.I.O.B., past president of the National Federation of Building Trades Employers, when he spoke at the inaugural meeting of the North Western Branch of the Institute of Builders, held in Manchester last week.

"Through the European Free Market," he said, "the opening up of new possibilities of competition on our native hearth from other countries is something that cannot be ignored, and if it should develop, our interests can best be protected by unity in our ranks."

Here, then, is the first feature of interpendability between the Institute and the stry—the development of the qualities leadership—but what of scholarship? In surely must go hand in hand with alternamship, for without adequate trainag in the technicalities and administrative

functions of our profession, the quality of leadership cannot flourish completely—if leadership is to be fully effective, it is as important to know what you are leading as it is to identify your objective.

"This is, perhaps, the most important function of our Institute; the training for and the award by examination of a proranks of leadership of the industry. The Institute has made immense progress in recent years in this direction and the day may not be far distant when a builder must first display his professional qualifica-tion before he can engage in business—a condition which applies already in other professions."

# **Election of Officers**

At the inaugural meeting, which was presided over by the president of the Institute, Mr. J. Gowing Middleton, the following officers and committee members were elected: Chairman, T. V. Prosser; vice-chairman, Prof. D. Harper; honorary treasurer, R. E. Costain; honorary secretary, R. M. Willan.

tary, R. M. Willan.

Branch Committee: G. A. Ball (hon. sec., Liverpool and District Centre of Discussion Club); C. Brown (Fleetwood); E. E. Coleman (Sale); R. O. Gerrard (Swinton); G. Humphreys (Liverpool); F. C. Lloyd

(Birkenhead); J. P. McColl (Prescot); H. S. Oddie (Wallasey); T. C. Nicholson (Preston); H. Penn (Liverpool); K. Taylor (Littleborough); S. F. Whitfield (chairman, Liverpool and District Centre of Discussion

The initial phase of branch development under the Institute's Master Plan will be completed later in the year when it is hoped to form a branch in Yorkshire.

### DOCK STRIKES HIT TIMBER FIRMS

Managing director of a London timber importing firm, Mr. Alexander Gourvitch, stated at a public enquiry in Holborn Town Hall last week that every time there was a dock strike members of the Timber Trades Federation lost hundreds of thousands of pounds. His company had lost about £50,000 during the tally clerks' strike in the autumn.

lost about £50,000 during the tally clerks' strike in the autumn.

The enquiry, into objections to the draft Dock Workers (Regulation of Employment) (Amendment) Order, 1961, was in its second day. The Order proposes to amend the dock labour scheme.

Mr. Gourvitch, appearing for the Timber Trades Federation, was objecting to the provisions of the Order. He said: "We are sick at heart—absolutely sick—to be losing money continuously for no reason whatsoever. It is not our fault. These arguments do not start with us." If the Dock Labour Board as at present organised could not cope with the difficulties involved it was time to change it.

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# FOR THE DIARY

### May 24

Annual general meeting of the Timber Development Association at the Dorchester Hotel, London, W.1, at 11 a.m.

Institute of Quarrying sixth short course "Transportation of Materials." Ashorne Hill Conference Centre. May 24-27.

### May 25

Annual general meeting and luncheon of the British Granite and Whinstone Federation.

Annual general meeting of the Institution of Structural Engineers, 11 Upper Belgrave Street, London, S.W.1.

Visit of the Institute of Sewage Purification (Metropolitan and Southern Branch) to British Sugar Corporation, Peterborough, followed by a joint visit with members from the Midlands Branch to Peterborough Sewage Works.

# May 29

Annual general meeting of the Hants. and Sussex branch of the Contractors' Mechanical Plant Engineers, Black Dog Inn, Emsworth, 7.30 p.m.

Summer meeting of the Eastern Federation of Building Trades Employers, Clacton-on-Sea. May 29-31.

International Road Tar Conference, Harrogate. May 29-31.

### May 30

Unwin Memorial Lecture at the Institution of Civil Engineers, Great George Street, London, S.W.l. "The Work of the Institution's Research Committee," by Prof. J. F.

Yerbury Foundation Lecture at the R.I.B.A., 66 Portland Place, London, W.I. 6 p.m. "Automation and Architecture—The Con-tribution of the Designer to Management Efficiency," by Gordson Friesen, F.A.C.H.A.

### June 5

Annual general meeting of Corporate Members of Institute of Public Cleansing. Music Hall, Aberdeen. 8 p.m. Federation of Master Builders' National luncheon and annual general meeting. Connaught Rooms, London. 1 p.m. (Tentative date.)

Annual conference of the Institute of Public Cleansing, Aberdeen. June 6-9.

Annual dinner and dance of the Reinforced Concrete Assn., Dorchester Hotel, London.

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4, 7.30 p.m.

Half-yearly meeting of the Yorkshire Federation of Building Trades Employers, Scarborough, June 9-11.

Southern Counties branch of the Contrac-tors' Mechanical Plant Engineers. Dance-Social at Crown Hotel, Morden, Surrey. 7.30 p.m.

Annual conference of the Institution of Municipal Engineers, Brighton. June 13-17. Annual general meeting of the Institution of Civil Engineers, Great George Street, London, S.W.1.

### June 14

Annual general meeting of the Reinforced Conrete Assn., London,

Building and Public Works Exhibition, Castle Bromwich, Birmingham, June 14-24.

International Construction Equipment Exhibition, Crystal Palace, London. June 15-24.

Dinner of the Contractors' Mechanical Plant Engineers, Coventry Street Corner House, London.

Annual conference and annual general meeting of the Institute of Sewage Puri-fication, Brighton. June 19-23. Summer Meeting of the Institution of Mechanical Engineers, Glasgow.

Official visit to Switzerland by members of the Eastern Federation of Building Trades Employers, June 21-July 5.

Conversazione at the Institution of Civil Engineers, Great George Street, London,

### June 28

"Architecture Today" Exhibition, organised jointly by R.I.B.A. and Arts Council of Great Britain, at 4 St. James's Square, London, S.W.I. June 28-July 29.

International Union of Architects Congress, London, July 3-7.

Southern Counties Federation of Building Trades Employers' Summer Conference, Oxford. July 4-5.

Chartered Surveyors Annual University of Leicester, July 4-8. Conference.

Building and Public Works Exhibition, Belle Vue, Manchester. July 5-15.

Half-yearly general meeting of the National Federation of Building Trades Employers, Blackpool. July 12-14,

### July 18

Meeting of the Southern Counties branch of the Contractors' Mechanical Plant Eng-neers, "Queen Victoria," North Chem, Surrey. 7.30 p.m.

Half-yearly meeting of the Midland Federa-tion of Building Trades Employen Trentham Gardens, Stoke-on-Trent.

International Packaging Exhibition, Olympia London, Sept. 5-15.

Meeting of the London branch of the Contractors' Mechanical Plant Engineers, Hendon Way Hotel, Hendon Way, N.W.4.

Conference of the Association of Public Lighting Engineers, Scarborough. Oct. 3-6.

Meeting of the London branch of the Contractors' Mechanical Plant Hendon Way Hotel, Hendon Way, N.W.4.

7.30 p.m.

Convention on "Planning for Traffic" arranged by the Institution of Municipal Engineers, London.

Meeting of the Institution of Structural Engineers, London. Presidential Address

Annual conference of the Institute of Quarrying, Palace Hotel, Torquay, Oct. 9-13.

Oct. 10
Annual dinner of the Contractors' Plant
Assn., Dorchester Hotel, London.

Forty-sixth International Motor Exhibition, Earls Court, London. Oct. 18-28.

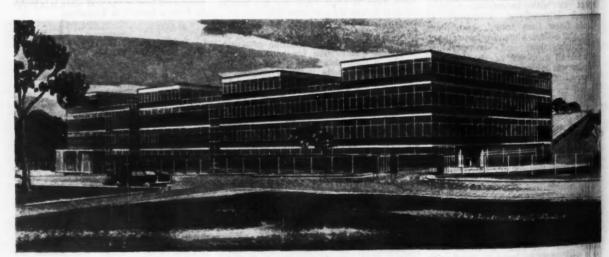
Annual dinner of the Institution of Mechanical Engineers, Dorchester Hotel. London.

Annual dinner of the Yorkshire Federation of Building Trades Employers, Queens Hotel, Leeds. Autumn general meeting of the Southern Counties Federation of Building Trades Employers, Connaught Rooms, London. Employers, 10.30 a.m.

Ct. 25
Meeting of the Institution of Mechanical
Engineers, 1 Birdcage Walk, Westminster,
London, S.W.1. Presidential Address.

Annual dinner of the British Road Tar Assn., Grosvenor House, London,

Nov. 2
Meeting of the London branch of the Contractors' Mechanical Plant Engineers
Hendon Way Hotel, Hendon Way, N.W.



An artist's impression of the new warehouse and office building which John Laing Construction, Ltd., are erecting at Poole, Dorset, for the British Drug Houses, Ltd. The building is the third and final stage of a £1m. development. Mr. Sydney Greenwood, A.R.I.B.A., is the architect

# International Construction

# NEW BANK BUILDINGS COMPLETED IN FREETOWN, SIERRA LEONE

Two new bank buildings have Two new bank buildings have recently been completed in Free-town, Sierra Leone, by Taylor Wood-row (Sierra Leone), Ltd. The first, a 6300,000 head office for the Bank of west Africa Ltd., incorporates what are believed to be the largest strongrooms

in the country. The contract involved the demolition and reconstruction of the bank building on which work began in November 1958. First which work began in November 1958. First the new vaults had to be completed. Then the cash reserves were transferred from the old vaults to the new. The old vaults were then demolished and the bank foundations laid, so that, in fact, the bank was built around the vaults.

The bank's strongrooms are on the ground floor and those of the West African Currency Board on the first floor. They are served by an unloading bay from the rear service road, and a large electric goods lift to the first floor.

lift to the first floor.

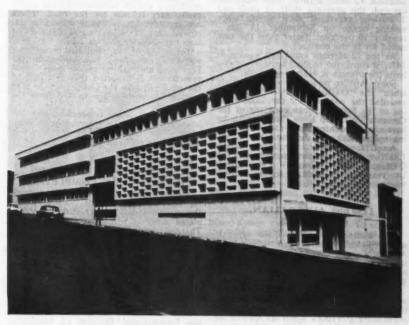
### Precast Concrete Sun Louvers

Built in the centre of Freetown the building has its main frontages and entrance in Oxford Street, with long frontages and entrances in Wilberforce Road and Rawdon Street. Of reinforced concrete construction the three-storey structure is 152ft. long, 80ft. wide and 54ft. high, with external walls panelled out with mineralite. The roof is an Arcon structure sheeted with special fire resisting asbestos steel sheeting.

special are resisting asbestos steel sheeting. Vertical and horizontal precast concrete sun lowers, numbering 650, are spaced on all sides of the upper floors and glazed ceramic screens at street level. The sun on the vertical louvers creates an interesting effect of light and shade, the pattern of black and white stripes varying as the sun's position changes. Behind the louvers are large horizontally sliding sash windows, ed in aluminium.

At ground level to a height of 12ft. are notified white ceramic grilles which by contrast form a lace pattern against the shade of the interior of the building. Above the grilles, at first floor level, projecting canopies on the three road frontages are edged in white marble. The flanking walls to the main staircases are faced with glittering stone chippings and the side walls are tiled externally in dark blue ceramic.

hall is a cantilevered balcony on three sides from which the Bills and Credits Depart-ments lead. This balcony and the second and third floor offices are reached by two terrazzo tiled staircases, and also by auto-matic passenger lifts. On the third floor



Exterior view of the Barclays Bank D.C.O. building

The main banking hall is over 20ft, high and comprises the whole length and depth of the building. The suspended ceiling, lined with acoustic tiles, is supported on slender circular columns faced in grey-green mosaic. Incorporated in the banking is the office of the High Commissioner of

is the office of the High Commissioner of the United Kingdom.

Floor finishings are of light grey mottle terrazzo tiles and extend from the entrance to the counter fronts, inside which the flooring area is of polished hard wood blocks. Counter fronts and columns have green measure facings and the wells are in green mosaic facings and the walls are in red glass mosaic. The entire building is fully air conditioned.

The architects were Ronald Ward and Partners; quantity surveyors, A. E. Thornton-Firkin and Partners; and consulting engineers, Hay and Barry.

# Barclays Project

The second building—for Barclays Bank D.C.O.—has been erected in two stages. Stage one, completed in mid-1959, after work began in 1958, comprised part of the new building adjoining the then existing premises. While the existing building was demolished the second stage was rected.

work began in 1958, comprised part of the new building adjoining the then existing premises. While the existing building was demolished the second stage was erected so that the business of the bank was transacted without interruption.

The L-shaped building stands on a diagonally sloping site and provides banking accommodation on the whole of the ground floor, including a double-storey banking hall. Further banking accommodation with a staff rest room is also provided on the first floor.

Below the banking hall is a large car park and security rooms. All the office accommodation is air-conditioned and the building is faced externally with terrazzo tiles, and precast sunbreakers or coloured ceramic tiles fill the open areas.

Architects were Nickson and Borys and Partners; electrical and air-conditioning consultants, J. Roger Preston and Partners; quantity surveyors, Daniel B. Connal and Partners; and consulting engineers, Brimer, Andrews and Nachshen.



Main banking hall in the Bank of West Africa headquarters

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# ANOTHER AFRICAN MINING RECORD

A NEW record—for South Africa and the A Rhodesias—in shaft sinking by a contractor has been claimed by The Cementation Co., (Africa) (Pty) Ltd.
At the O'OKiep Copper Company's mine in Namaqualand, Cape Province, Cementa-

tion engineers sunk and lined as a simul-taneous operation 54lft. in one month. This beats the previous record—also by Cementation—of 468ft. at the Mufulira

Cementation—of 468ft. at the Mufulira West mine last year.

The mine shaft—of 20ft. finished diameter lined throughout with 15in. thick walls—has now reached 2,485ft., and in addition 12 shaft stations have been excavated; this averages 365ft. of shaft and 2 stations excavated each month since sinking began on September 18 last—roughly 50 per cent. faster than the rate called for in the contract.

roughly 50 per cent, faster than the rate called for in the contract.

As the 12 stations excavated equate to 347ft, if converted to shaft footage, on this basis the average is 418ft, per month.

South African mining history was made when the O'OKiep Copper Company awarded the contract for the shaft sinking to the South African company of the Cementation Group since these operations have always been carried out by the mining companies' own departments. have always being companies

ing companies' own departments.

A 17ft. diameter ventilation shaft, 1,987ft. deep, was completed at the O'Okiep Copper Mine by Cementation last year as a preliminary to the present work.

# £150,000 AUSTRALIAN CONTRACTS

Two contracts worth together approximately £150,000 have been received by A. Reyrolle and Co., Ltd., Hebburn, from the Hydro-Electric Commission, Tasmania, for the Poatina Hydro-Electric Power Station

Station.

The first is for eight 220-kV 5,000-MVA air blast circuit breakers, current transformers and ancillary equipment. The other is for 13 110-kV 3,500-MVA small oil volume circuit breakers with current trans formers and ancillary equipment.

## SHUTTLE DUMPERS FOR **GUMA DAM**

Aveling-Barford, Ltd., are to supply Taylor Woodrow (Sierra Leone), Ltd., with 18 SL 270 13½ ton "Shuttle" dumpers to the value of some £110,000, for work on the Guma Dam project.

Another member of the Aveling-Barford Group, Goodwin Barsby and Co., Ltd., are supplying the contractors with the aggregate crushing plant for the same project. This plant will include a 24 x 15 roller-bearing Acme crusher and feeder, a 36 x 6 roller-bearing Acme granulator, two Vitex vibrating screens and a radial conveyor.

# TUNIS MOTORWAY PROJECT

# **London Consultants Engaged**

LEONARD AND GRANT, consulting engineers of B.A.S.E. Group, London, have been appointed by the Tunisian Government to carry out a full traffic census and survey together with a land and soil survey for a proposed new motorway to by-pass the City of Tunis.

soil survey for a proposed new motorway to by-pass the City of Tunis.

The project is regarded by the Tunisians as an important factor in their economic development since the motorway is intended to link Bizerte in the North and Sfax in the South and to connect with the new international airport at El Aouina.

Leonard and Grant will be required to produce a report, recommendations and a preliminary scheme for the road. There are considerable technical difficulties involved since Tunis lies on a narrow neck of land between two shallow lakes.

The route of the road lies partly over marshy ground and runs alongside the Port of Tunis which carries heavy road vehicles. It is expected that this part of the road will take the form of an elevated carriageway with access to and from the City roads.

Survey work, which commenced recently,

Survey work, which commenced recently, expected to take eight months to com-lete. The length of the motorway is approximately fifteen miles.

# THERMAL POWER STATION INSTALLATION COMPLETED

Another segment in the rapidly expanding power facilities made possible under the second Indian 5-year Plan was completed recently when the giant Trombay Thermal Power Station, constructed near

Thermal Power Station, constructed near Bombay, went into operation.

The project was engineered for Tata Power Co., Ltd., by Burns and Roe, consulting engineers, New York, with the contract for engineering, manufacturing, construction and erection of the complete coal handling system, including: rail unloading equipment, conveyors, storage facilities, crushers, samplers, etc. being awarded to the International Division of Stephens-Adamson Mfg. Co., Aurora, Illinois.

The system will provide 62,500-kW of electric power for the rapidly expanding industrial areas around Bombay.

# £A2M. TO BE SPENT ON TRANS HIGHWAY

Western Australia has decided to spend

Western Australia has decided to spend £A2 million to seal with bitumen its section of the Trans-Continental Highway, which runs through the State for 450 miles. The work will be carried out over six years. The Western Australian Premier, Mr. Brand, said spending on the highway had to be carefully related to the rest of the State road programme, which was costing nearly £A9 million a year.

# "TWIN-SHAFT" VIBRATING SCREEN

A NEW vibrating screen, which incorporates two shafts to provide screen pulsations, has been announced by Koehring Company of California, Stockton, a division of Koehring Company, Milwaukee, Wis., U.S.A.

Called the Ko-Cal "Twin-Shaft," the screen is available in three sizes: 4ft. by 8ft., 4½ft. by 10ft., and 5ft. by 14ft. It takes its name from its double eccentric shaft construction instead of the normal single shaft. With the two eccentric shafts, the manufacturers say that a uniform pulsating action results over the entire length of the screen, eliminating "gallup" and providing higher capacity.

Other features include: screen cloth bolted to side plates to eliminate welding

Other features include: screen cloth bolted to side plates to eliminate welding tensions which result in localised stresses and high maintenance; oversize positive drive belt to maintain timing of rotation of both shafts; all three belt sheaves eccentrically bored to counteract screen action, eliminate belt whip, and result in a smooth running screen; and a weight saving of 25 per cent. over single shaft designed screens.

Further information is available from Koehring Company of California, 220 Country Club Blvd., Stockton, California.

# AFRICAN MARKETING AGREEMENT

A Johannesburg firm, Watermasters (Pty) Ltd., is to produce and market in South Africa plant designed by William Boby and Co., of Rickmansworth, Herts. The agreement between the two companies applies to the whole range of Boby water

applies to the whole range of Boby water treatment equipment.

The managing director of the Hertfordshire firm, Mr. Michael Boby, says: "The development of industry and public services in African countries means the opening of large markets.

"An agreement of this kind is, from our point of view, a far more practical arrangement than an export sales service, It means that we provide the 'know-how', and Watermasters their production facilities and wide knowledge of local conditions." ditions.

A South African engineer has been sent to Rickmansworth to study Boby methods and techniques.

### NEW ZEALAND'S LARGEST **PROGRAMME**

This year New Zealand is spending more than £40 million on education, says a statement from the Education Department. The education building programme is the largest in history, including work to the value of £26,960,000, of which it is estimated that £9 million will be spentillion. this year.

this year.

In the schools sector the programme provides for starting 37 new primary, 14 intermediate, and 16 post-primary schools. In addition, major alterations and additions will be made to many existing schools. All have to be furnished and equipped to provide the teaching facilities required.

Extensions are being carried out at universities; a new science block is planned for Canterbury University; and a new building for the Seddon Technical College, Auckland, has been approved.

KOEHRING ANNOUNCE NEW

305 HOE BOOM

A new 305 hoe boom—offering greater reach, digging depth, heeling range, and digging force—has been announced by Koehring Co., Milwaukee, Wis, U.S.A.

Overall reach of the new boom, which is now standard on all 305 hoes, has been increased to 33ft; maximum digging depth to 20ft.; heeling range (distance bucket may be pulled from maximum extension before coming out of horizontal) increased up to 17 per cent.; and digging force increased up to 55 per cent.

# KOEHRING'S 1960 EXPORT SALES AWARD

L ORENZO BUSTILLOS N., Dresident of Lorenzo
Bustillos M. and Cia. Sucs.
C.A., Caracas, Venezuela, holds
the 1960 "highest sales C.A., Caracas, venezuela, noids the 1960 "highest sales volume" plaque recently pre-sented to his firm by the Koehring Co., Milwaukee, Wis.

The photograph, taken after a dinner meeting in Caracas, shows, left to right, R. J. Peot, Koehring Export Co. sales manager; Lorenzo Bustillos N.;

manager; Lorenzo Bustillos N.;
Armando Bustillos N. and
Robert C. Boone, general manager and sales manager, respectively of the Venezuelan firm.
The plaque, which is signed
by Julien R. Steelman, president of Koehring Co., and
F. C. Chambers, export
manager, is presented annually
to the Koehring export distrito the Koehring export distri-butor attaining the highest sales volume



# International Construction

# AMERICAN MULTI-STOREY CAR PARK IS BUILT OVER ROADWAY

MULTI-STOREY parking garage, A part of which spans a busy street, is under construction at Omaha, Nebraska, for J. L. Brandeis and Sons, owners of the city's largest department store.

Estimated to cost \$2m., the structure will consist of a six-storey garage, with parking space for 220 cars, across the roadway, linking a seven-floor parking garage for 431 cars on one side of the street with the department store on the other

# General Design

Both the garage proper and the overpass structure include a number of advanced constructional features. The garage, 198ft. by 132ft. and with an area of 260,500 sq. ft. in all, is a rampless structure that embodies self-service and a one-way traffic flow. The overpass, 132ft. by 100ft. and containing 79,200 sq. ft. of area, employs fat slab construction in which a large use of voids, comprising a total of 21,000ft., was employed to hold down weight. There are no supporting columns in the traffic pattern within the structure of the main garage. Concrete beams, set on 16ft. centres, run in a 56ft. span from exterior walls to central core. The central core houses a 34ft. high-speed circular exit amp, stairs, self-service elevator and structural members. Floors have a helical configuration with a four-degree elevation so that they become their own ramps (one 250ft. swing around the building raises a car 10ft. to the next floor).

To maintain traffic in channels, the entages is on one street and the exit is on

To maintain traffic in channels, the entrance is on one street and the exit is on another. Thus a motorist enters, drives another. Thus a motorist enters, drives upward in a one-way traffic pattern until he finds a vacant stall, parks at a 60-degree angle in the columnless interior and, on leaving, takes the high-speed ramp downward and pays the cashier as he leaves, still moving in a one-way flow.

The overpass building, with its flat slab floors, allows customers of the department store to park their vehicles in relation to the part of the store which they wish to

visit.

A principal objective in both the design of the garage proper and the overpass was the saving of weight. By employing 3,000 ps.i. lightweight concrete using expanded shale aggregate in the aerial floors, dead load in the garage proper was held to 150lb, giving a weight saving of one-third. For the overpass, architects turned to bridge design practice and used voids to extend the advantages of lightweight concrete. As a result, weight was brought down from 240 to 145lb, per square foot.

# Use of Steel

The overpass is a composite structure of steel and concrete to conform with a municipal requirement that the street be kept open at all times while construction was taking place overhead. Since an all-concrete structure would have required a traffic-blocking maze of shoring in the street, compliance was achieved by using columns plus structural steel framing for the level immediately above the extreme. the level immediately above the street. The other five floors are concrete flat slabs, platform from which to work without hindrance to street use.

hindrance to street use.

Columns are set in the sidewalk 4ft.

From the curb line to permit a parked car's door to open without banging. This setting resulted in a length of 67ft. 8in. for the beams and girders spanning the street. Beams cantilever out from the columns to carry the structure 16ft. 6in. over the two sidewalks, bringing the over-

pass flush against the store at one side of the street and against the parking garage at the other. Built-up 48in. girders were employed, rolled structural members rang-ing in size up to 36WF260.

The overpass floors, measuring 132ft. by 100ft., are 26in. thick slabs supported



Reshaping of tubes on delivery to site

solely by steel beams set on the line of the sidewalk columns, with no inter-mediate columns or joists. The honey-comb interior of the big expanse of slab provides its strength.

Cardboard tubes of an elongated octagonal shape, measuring 30in. wide by 16in. high, were set at 38in. centres, giving 5in. of concrete above and below the tubes and a beam-shaped section of concrete having an 8in. minimum web portion between tween each pair of tubes.

Reinforcement consisted of 1½in. bars at 4in. centres at the bottom of the slab, running with the tubes; ¾in. bars at 9in. centres at the top of the slab running with the tubes; a mesh of ¾in. temperature bars at 15in. centres at the top and bottom of the slab running in both directions; and in the heam stirrung of ¾in. bars at 11in. the beams, stirrups of \$\frac{1}{2}\text{in. bars at 11in.} centres with \$\frac{1}{2}\text{in. bars running through their lengths.}

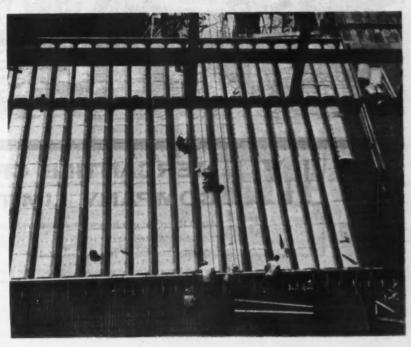
# **Economy in Transport Space**

The octagonal cardboard tubes, or voids, The octagonal cardboard tubes, or voids, were brought to the site in a collapsed form to give economy in transport space, and were brought back to shape by the insertion of an "egg-crate" type of cardboard reinforcing. Strengthened in this way, it was possible for them to be walked upon, even by men carrying heavy loads, without fear of collapse.

The 4ft. sections were joined by a cardboard sleeve, stitched into place. To anchor the tubes against flotation, they were supported from below and tied down on top by in. bars previously shaped to follow the contours of several rows of tubes. The bars were supported from below by 5in.high chairs of 8g, wire, the upper bars employing tiedowns bolted to the form.

Concreting was carefully carried out, the Concreting was carefully carried out, the procedure being to place the concrete on one side of the tubes and vibrate it until it was distributed to the other side. No concrete was placed in a joist until the concrete from the preceding joist had flowed under the void tube and risen to a height of more than 5in.

The architects for the scheme are the Leo A. Daly Co., and the contractors are Parsons Construction Co., Omaha, Neb.



Positioning of the cardboard voids



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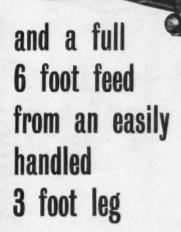


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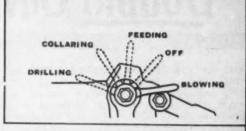


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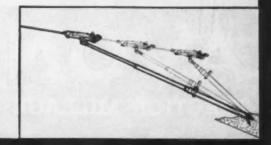
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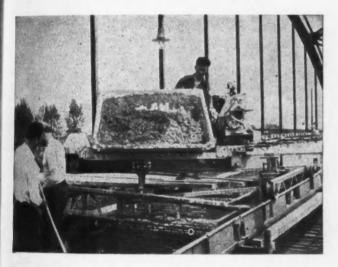
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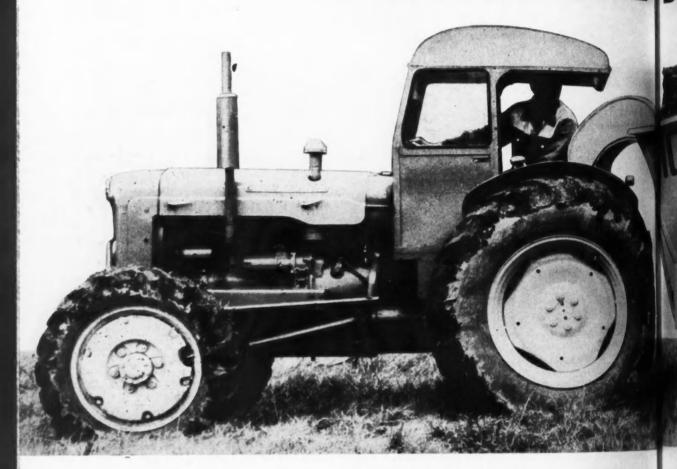
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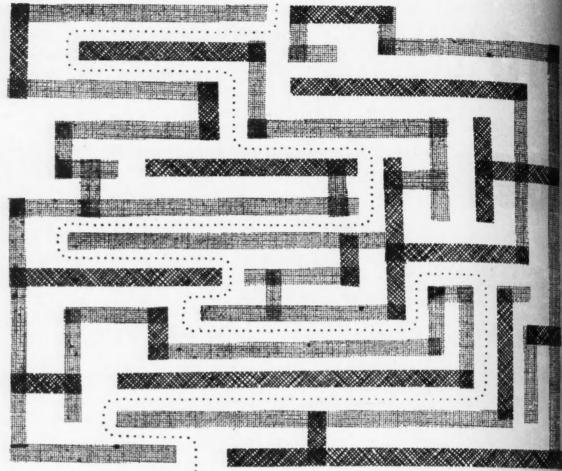
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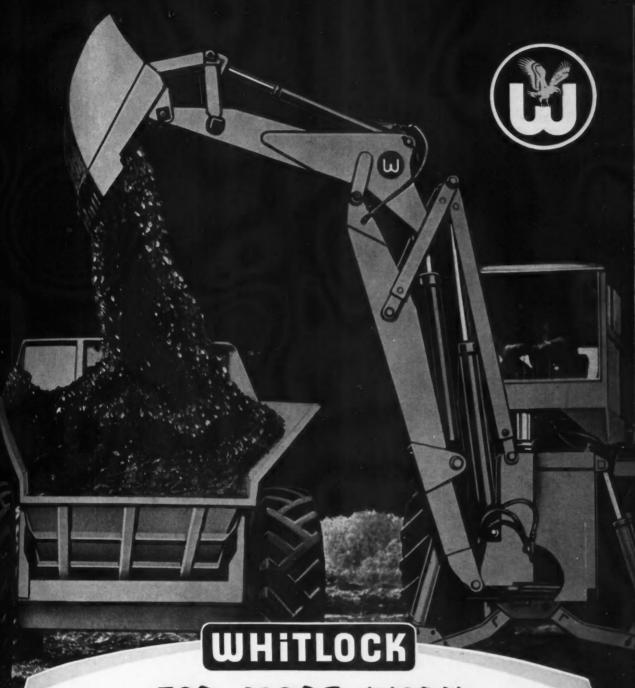


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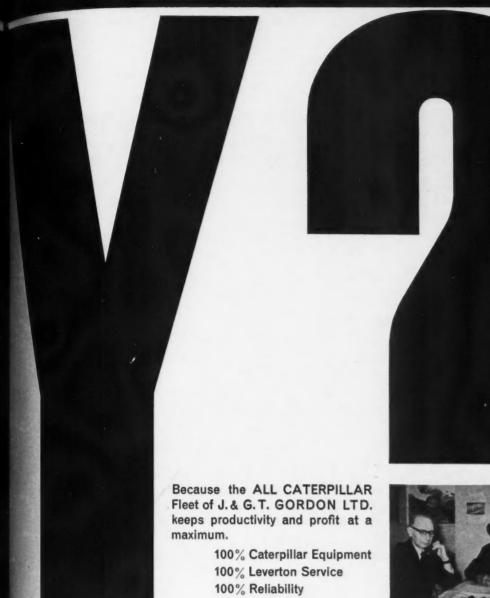


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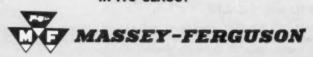
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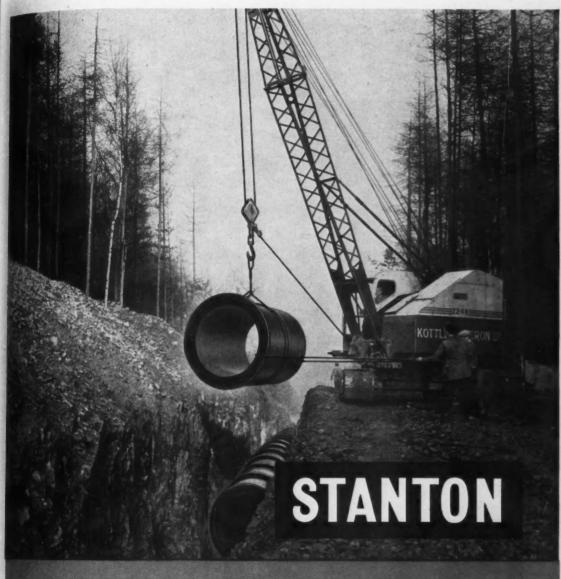
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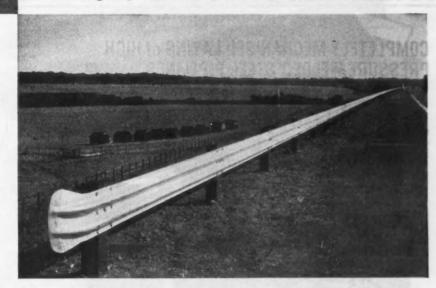
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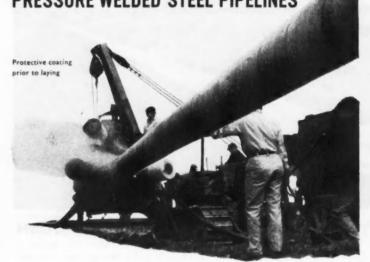
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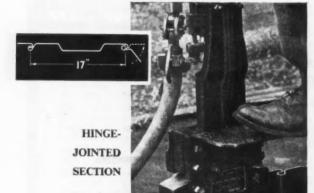
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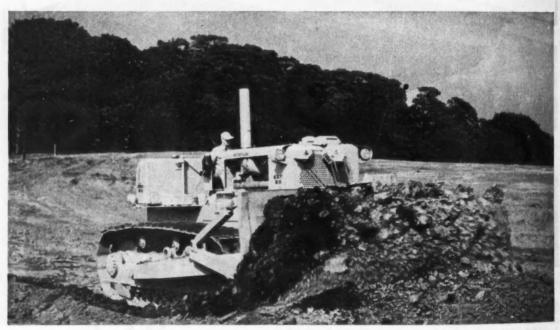
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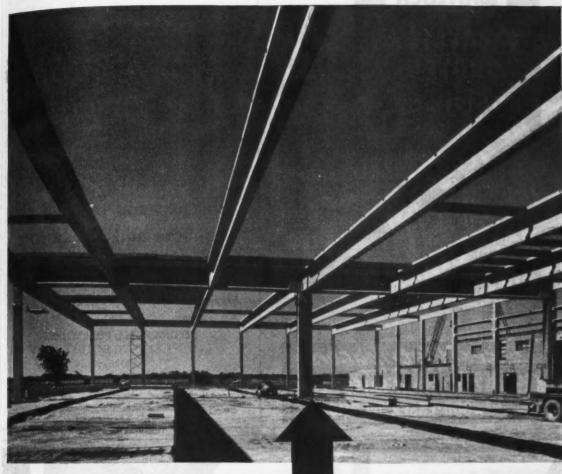


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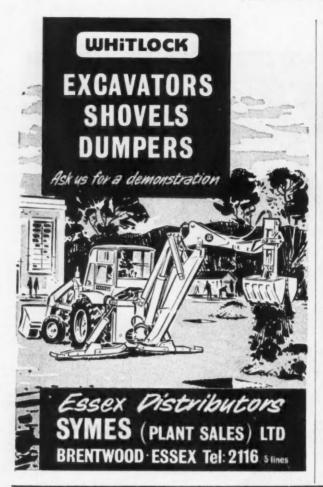
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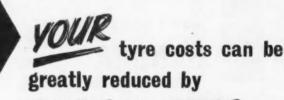


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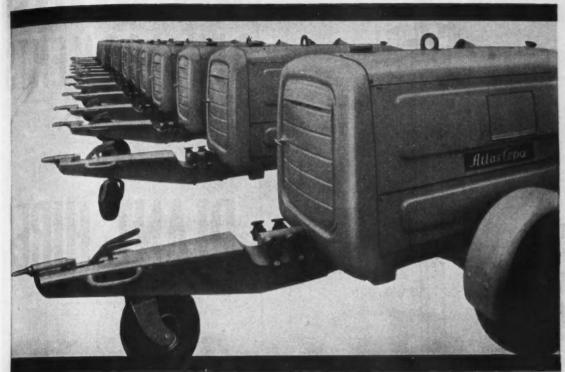


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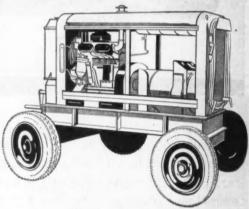
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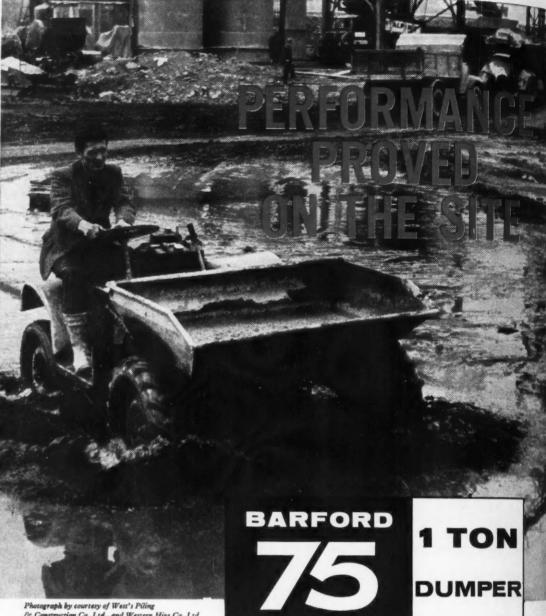
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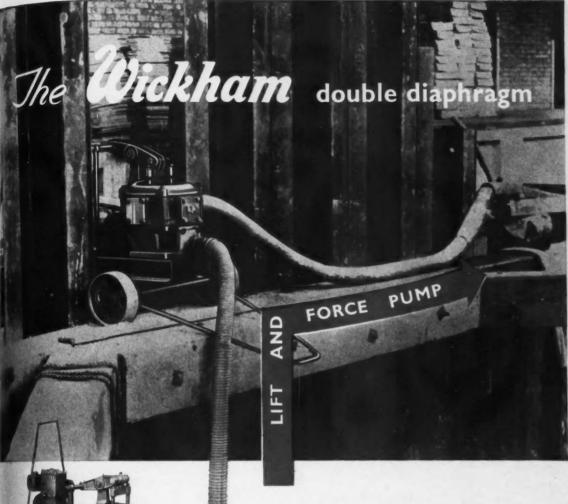
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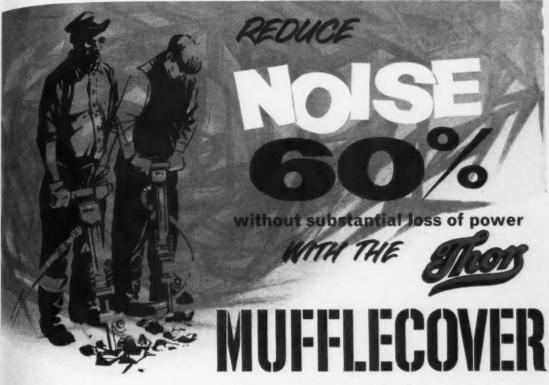
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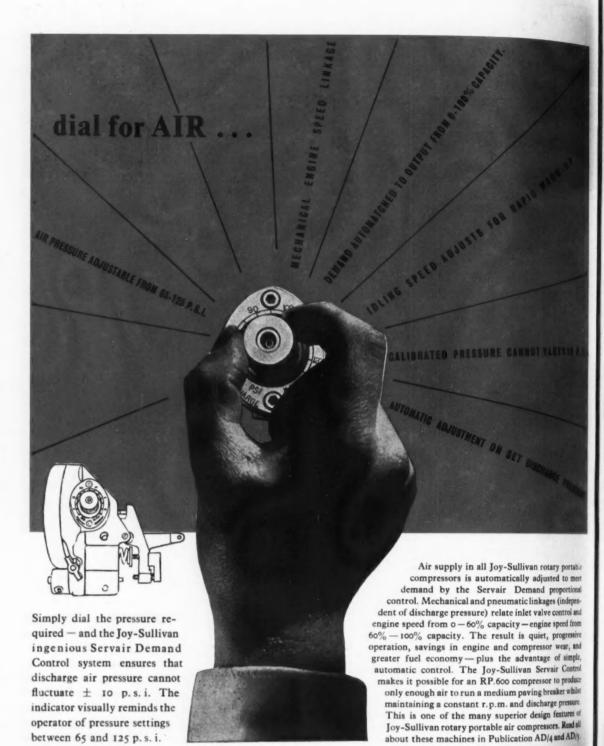
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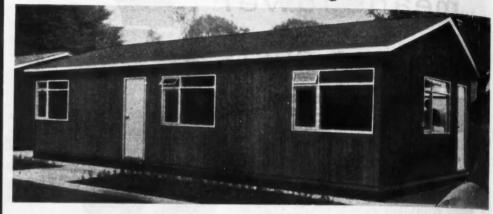
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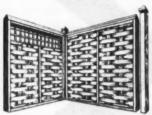
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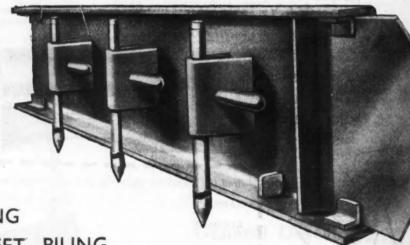
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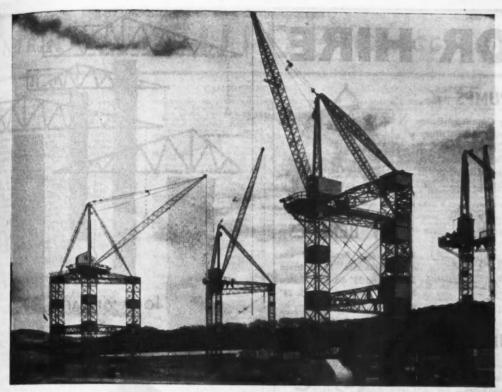


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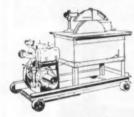
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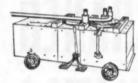
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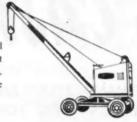


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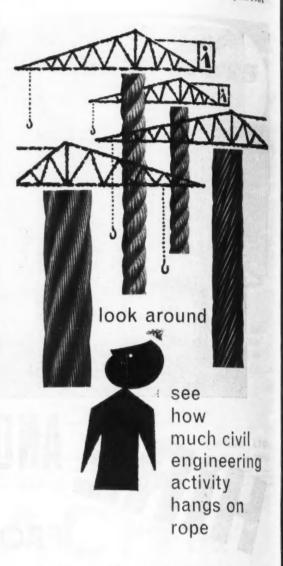
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aggregates to S.5.5. All sizes. Tarred and
bituminous granite, concrete slabs and kerbs.
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Clean and graded dry limestone to 8.5.5. all altest susted limestone to 8.5.5. all altest susted limestone to 8.5.5. all altest susted limestone to 8.5.8 602 and 1621 and wet-mix! large output: reliable deliveries.

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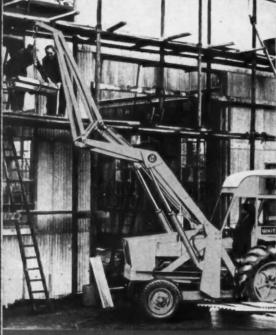




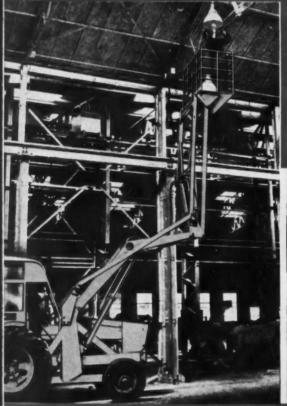
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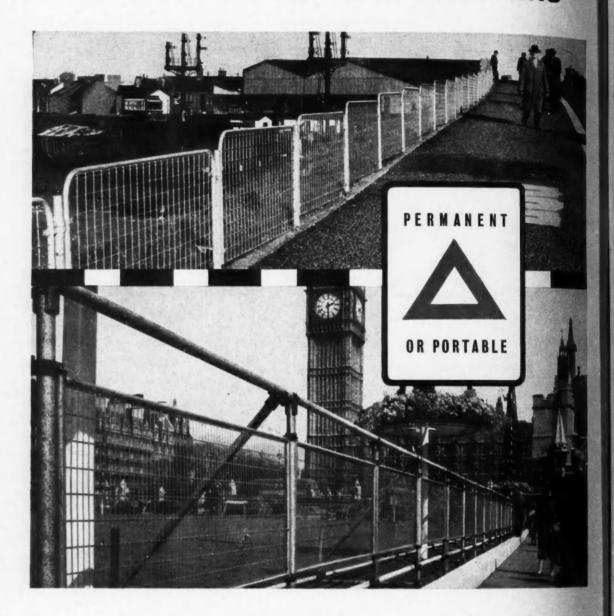


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